



Rittal – Product Overview 2006



Perfection in Technology Packaging

We look to the future



A young boy and girl are running barefoot on a sandy beach. The boy, in a blue t-shirt and striped shorts, is pulling a yellow flag on a string. The girl, in a pink checkered dress, is running alongside him. The background is a clear blue sky with some light clouds.

Rittal is already working enthusiastically on the solutions of the future. This is our tradition, and is the key to our **innovativeness** in the field of technology packaging. Experience the future of **communications technology and automation** with Rittal, trendsetters in holistic solutions. Setting trends means understanding customers, creating future-safe solutions, and being very forward-thinking. Industrial Ethernet, nano-spray-finishing and Rittal Liquid Cooling Systems are just some of the examples which impressively underscore our commitment to this principle.

With **fascinating future**, progress is possible – this is our mission.

The Rittal corporate principle

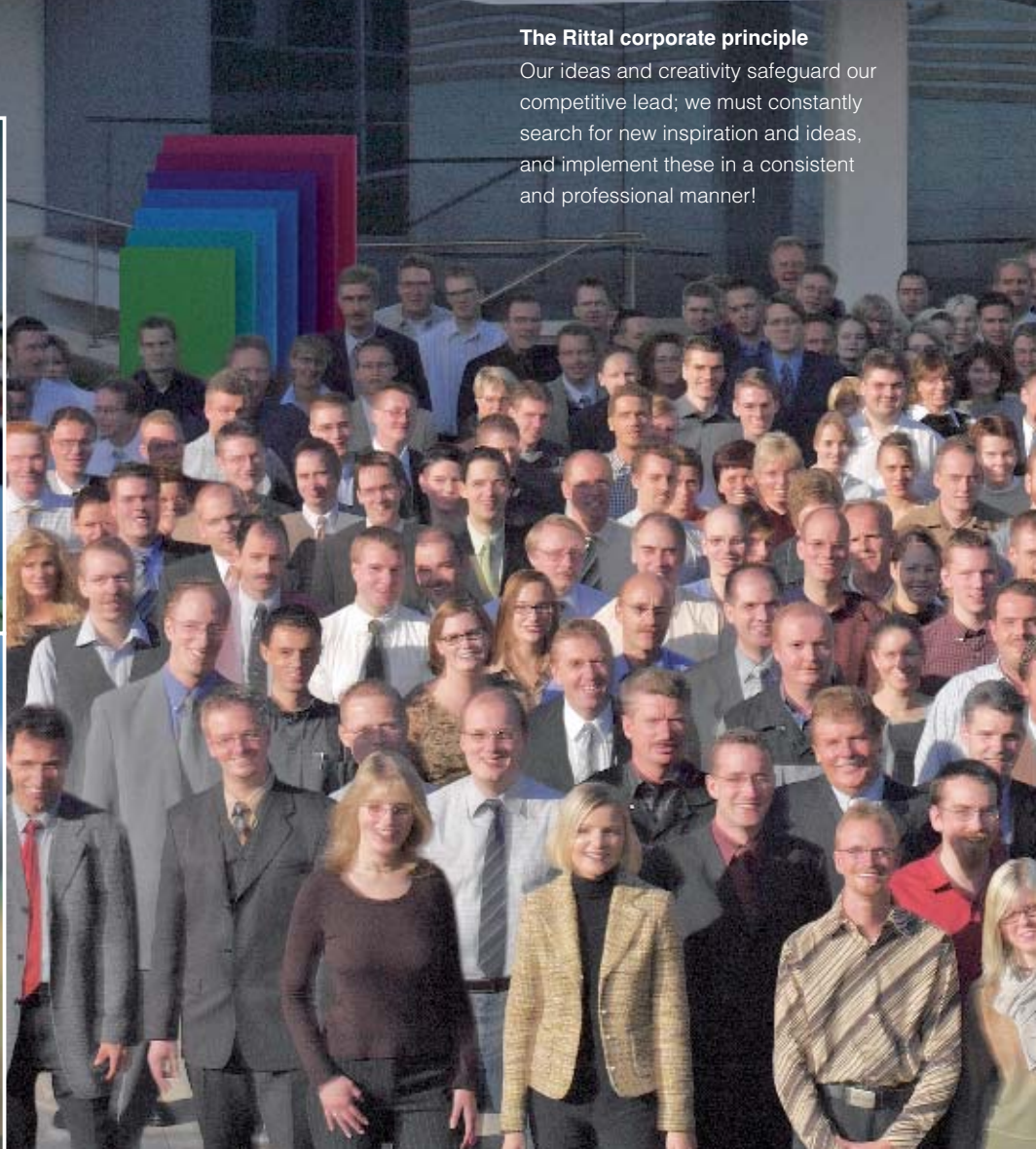
We are aware of our responsibility to the environment and the world in which we live. We want to help structure and improve them!





The Rittal corporate principle

Our ideas and creativity safeguard our competitive lead; we must constantly search for new inspiration and ideas, and implement these in a consistent and professional manner!



In the IT sector, transport technology, automation industry and beyond,

**Rittal solves all tasks for a wide variety of application areas – always
with an eye on the future.**

Over 8700 employees worldwide are thinking and acting on your behalf,
with precise knowledge of the industry, practical expertise, curiosity and
farsightedness.

Progress is possible – with Rittal, in all sectors and for all applications.

Over 8700 employees committed to a fascinating future





For experts and beginners alike, the product overview facilitates **fast selection of individual product groups within the range.**

For example, the appropriate dimensions of an enclosure or the correct cooling output of a climate control component are easily ascertained.

For all Rittal components of technology packaging, power supply, climate control and monitoring technology, a comprehensive pre-selection is provided.



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Industrial enclosures – reap the benefits of the extensive Rittal enclosure range:

Perfect, cost-effective solutions to suit every application. All in all, the wide range of sizes, the application-oriented choice of materials, the tailoring to specific application areas, the modular range of system accessories and compatibility with all other Rittal lines gives Rittal customers a competitive lead from a single source.

Holistic solutions to perfection:

- Small enclosures
- Compact enclosures
- Compact system enclosures
- Large enclosures
- Industrial workstations
- PC enclosure systems
- Console systems

@ Detailed information and a full range of accessories may be found on our website at www.rittal.com



1.1 Polycarbonate enclosures PK

Dimensions mm			Model No. PK		Cat. 31 page
Width	Height	Depth	Cover		
			grey	transp.	
50	52	35	9530.000 ¹⁾²⁾	—	100
50	65	35	9531.000 ¹⁾²⁾	—	100
65	65	57	9500.000	—	100
65	65	57	9500.050 ³⁾	—	4)
65	65	81	9501.000	—	100
94	65	57	9502.000	—	100
94	65	81	9503.000	—	100
94	94	57	9504.000	9504.100	100
94	94	81	9505.000	—	100
110	110	66	9506.000	9506.100	100
110	110	90	9507.000	9507.100	100
130	94	57	9508.000	9508.100	100
130	94	57	9508.050 ³⁾	—	4)
130	94	81	9509.000	9509.100	100
130	130	75	9510.000	9510.100	100
130	130	99	9511.000	9511.100	100

¹⁾ GOST R (see page 98).

²⁾ With cable gland.

³⁾ With metric knockouts.

⁴⁾ See Innovations 2005, page 14.

Approvals:

- Bureau Veritas

Dimensions mm			Model No. PK		Cat. 31 page
Width	Height	Depth	Cover		
			grey	transp.	
180	94	57	9512.000	9512.100	100
180	94	81	9513.000	9513.100	100
180	110	90	9514.000	9514.100	101
180	110	90	9514.050 ³⁾	—	4)
180	110	111	9515.000	9515.100	101
180	110	165	9516.000	9516.100	101
182	180	90	9517.000	9517.100	101
182	180	111	9518.000	9518.100	101
182	180	165	9519.000	9519.100	101
254	180	90	9520.000	9520.100	101
254	180	111	9521.000	9521.100	101
254	180	111	9521.050 ³⁾	—	4)
254	180	165	9522.000	9522.100	101
360	254	111	9523.000	9523.100	101
360	254	165	9524.000	9524.100	101



1.1 Cast aluminium enclosures GA

Dimensions mm			Model No. GA	Cat. 31 page
Width	Height	Depth		
50	45	30	9100.210	104
58	64	36	9101.210	104
75	80	57	9104.210	104
98	64	36	9102.210	104
125	80	57	9105.210	104
122	120	80	9108.210	104
150	64	36	9103.210	104
160	160	90	9112.210	104
175	80	57	9106.210	104
200	230	110	9116.210	104

Dimensions mm			Model No. GA	Cat. 31 page
Width	Height	Depth		
220	120	90	9110.210	104
250	80	57	9107.210	104
260	160	90	9113.210	104
280	230	110	9117.210	104
330	230	110	9118.210	104
330	230	180	9119.210	104
360	122	80	9111.210	104
360	160	90	9114.210	104



1.1 Terminal boxes KL

Dimensions mm			Model No. KL				Model No. KL	
Width	Height	Depth	Sheet steel				Stainless steel 1.4301/ 1.4404 (AISI 304/AISI 316L)	
			with gland plate	Cat. 31 page	without gland plate	Cat. 31 page	without gland plate	Cat. 31 page
150	150	80	—		1514.510	107	1521.010¹⁾²⁾	270
150	150	120	—		1500.510	108	—	
200	150	80	—		1528.510	107	—	
200	150	120	—		1529.510	108	—	
200	200	80	—		1516.510	107	1523.010¹⁾²⁾	270
200	200	120	—		1502.510	108	—	
300	150	80	—		1515.510	107	1522.010¹⁾²⁾	270
300	150	120	1530.510¹⁾	109	1501.510	108	—	
300	200	80	—		1517.510	107	1524.010¹⁾²⁾	270
300	200	120	1531.510¹⁾	109	1503.510	108	—	
300	300	120	1535.510¹⁾	109	1507.510	108	1526.010¹⁾²⁾	270
400	150	120	—		1589.510	108	—	
400	200	80	—		1518.510	107	—	
400	200	120	1532.510¹⁾	109	1504.510	108	1525.010¹⁾²⁾	270
400	300	120	1536.510¹⁾	109	1508.510	108	—	
400	400	120	1539.510¹⁾	109	1511.510	108	—	
500	200	120	1533.510¹⁾	109	1505.510	108	—	
500	300	120	1537.510¹⁾	109	1509.510	108	—	
600	200	80	—		1519.510	107	—	
600	200	120	1534.510¹⁾	109	1506.510	108	—	
600	300	120	1538.510¹⁾	109	1510.510	108	—	
600	400	120	1540.510¹⁾	109	1512.510	108	—	
800	200	120	1542.510¹⁾	109	1527.510	108	—	
800	400	120	1541.510¹⁾	109	1513.510	108	—	

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE



1.1 E-Box EB

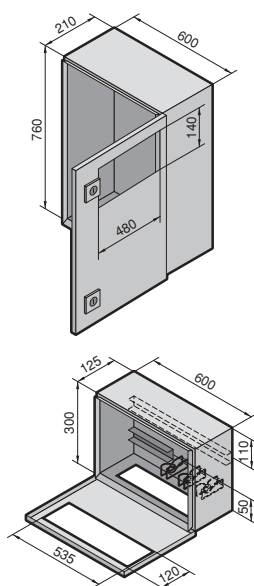
Dimensions mm			Model No. EB	Cat. 31 page
Width	Height	Depth		
150	150	80	1551.500¹⁾	110
150	150	120	1553.500¹⁾	110
150	300	80	1545.500¹⁾	110
150	300	120	1548.500¹⁾	110
200	200	80	1546.500¹⁾	110
200	200	120	1549.500¹⁾	110
200	300	80	1552.500¹⁾	110
200	300	120	1554.500¹⁾	110

¹⁾ GOST R (see page 98).

Dimensions mm			Model No. EB	Cat. 31 page
Width	Height	Depth		
200	400	80	1547.500¹⁾	110
200	400	120	1550.500¹⁾	110
200	500	120	1557.500¹⁾	110
300	300	120	1555.500¹⁾	110
300	400	120	1556.500¹⁾	110
300	400	155	1577.500¹⁾	110
300	600	155	1578.500¹⁾	110
300	800	155	1579.500¹⁾	110

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE



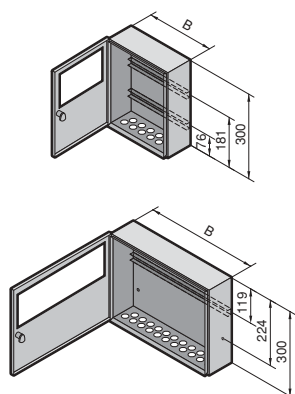
1.1 Empty enclosure for industrial distributor

Dimensions mm			Model No. IN	Innovations 2005 page
Width	Height	Depth		
600	760	210	1076.290 ¹⁾	11
600	300	125	1510.280	11

¹⁾ Stainless steel and plastic versions available on request.

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



B = Width

1.1 Bus enclosures BG

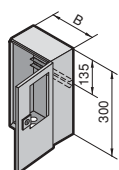
Dimensions mm			PG version		Metric version	
Width	Height	Depth	Model No. BG	Cat. 31 page	Model No. BG	Cat. 31 page
200	300	80	1583.510 ¹⁾²⁾	111	1583.520 ¹⁾	111
300	300	80	1584.510 ¹⁾²⁾	111	1584.520 ¹⁾	111
400	300	80	1585.510 ¹⁾²⁾	111	1585.520 ¹⁾	111
500	300	80	1586.510 ¹⁾	111	1586.520 ¹⁾	111

¹⁾ GOST R (see page 98).

²⁾ To order bus enclosures in stainless steel 1.4301 (AISI 304), without viewing window and drilled holes, please add extension .010 to the Model No.

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



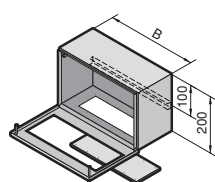
B = Width

Dimensions mm			PG version				Metric version			
			Number of PG holes				Number of metric holes			
Width	Height	Depth	9	13.5	29	36	Model No. BG	Cat. 31 page	Model No. BG	Cat. 31 page
200	300	120	2	—	5	—	1605.510 ¹⁾	112	1605.520 ¹⁾	112
400	300	120	—	2	9	1	1606.510 ¹⁾	112	1606.520 ¹⁾	112

¹⁾ GOST R (see page 98).

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



B = Width

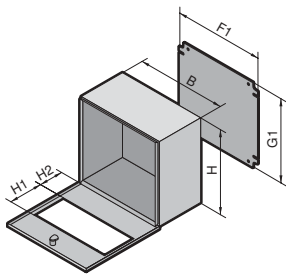
Dimensions in mm			Model No. BG	Cat. 31 page
Width	Height	Depth		
400	200	125	1558.510 ¹⁾²⁾	112
600	200	125	1559.510 ¹⁾²⁾	112

¹⁾ GOST R (see page 98).

²⁾ To order bus enclosures in stainless steel 1.4301 (AISI 304), without viewing window and gland plate, please add extension .010 to the Model No.

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



1.1 Bus enclosures BG

Modifications

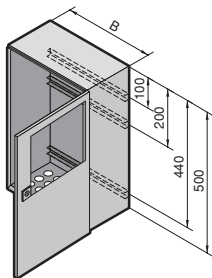
Height of viewing window mm		Gland plate cut-out ²⁾ bottom (clearance width) mm	Model No. BG		Cat. 31 page
H1	H2		Basic	Extension	
		327 x 97	1577.540		113
		527 x 97	1578.540		113
		2 off 327 x 97	1579.540		113
115	92	—		.520¹⁾	113
190	42	—		.530¹⁾	113
115	92	■		.550¹⁾	113
190	42	■		.560¹⁾	113
155	92	—		.450¹⁾	113

¹⁾ Extended delivery times.

²⁾ Gland plates 14 mm larger all-round.

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



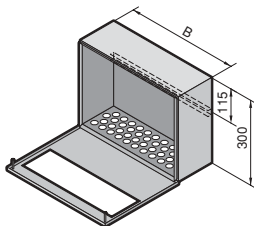
B = Width

Dimensions mm			Model No. BG	Cat. 31 page
Width	Height	Depth		
400	500	160	1611.510¹⁾	113

¹⁾ GOST R (see page 98).

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL

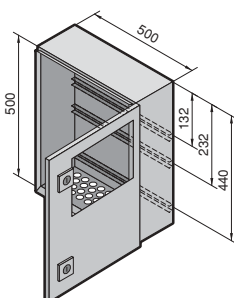


B = Width

Dimensions mm			Model No. BG	Cat. 31 page
Width	Height	Depth		
500	300	120	1609.510	114

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



Dimensions mm			Model No. BG	Cat. 31 page
Width	Height	Depth		
500	500	210	1050.900	114

Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



1.2 Compact enclosures AE

Dimensions mm			Model No. AE	Cat. 31 page	Model No. AE	Cat. 31 page
Width	Height	Depth	Sheet steel		Stainless steel 1.4301/1.4404 (AISI 304/AISI 316L)	
Single-door						
200	300	120	1032.500 ¹⁾	118	—	
200	300	155	1035.500 ¹⁾	118	1002.600 ¹⁾	273
300	300	210	1033.500 ¹⁾	118	—	
300	380	210	—		1005.600 ¹⁾	273
300	400	210	1034.500 ¹⁾	118	—	
380	300	155	1030.500 ¹⁾	118	1004.600 ¹⁾ /.500 ²⁾	273
380	300	210	1031.500 ¹⁾	118	—	
380	380	210	1380.500 ¹⁾	118	1006.600 ¹⁾	273
380	600	210	1038.500 ¹⁾	119	1008.600 ¹⁾ /.500 ²⁾	273
380	600	350	1338.500 ¹⁾	119	—	
400	500	210	1045.500 ¹⁾	119	—	
500	500	210	1050.500 ¹⁾	119	1007.600 ¹⁾ /.500 ²⁾	273
500	500	300	1350.500 ¹⁾	119	1013.600 ¹⁾ /.500 ²⁾	273
500	700	250	1057.500 ¹⁾	119	—	
600	380	210	1039.500 ¹⁾	118	1009.600 ¹⁾	273
600	380	350	1339.500 ¹⁾	118	—	
600	600	210	1060.500 ¹⁾	119	1010.600 ¹⁾	273
600	600	350	1360.500 ¹⁾	119	—	
600	760	210	1076.500 ¹⁾	119	1012.600 ¹⁾ /.500 ²⁾	273
600	760	350	1376.500 ¹⁾	119	—	
600	800	250	1058.500 ¹⁾	119	—	
600	1000	250	1090.500 ¹⁾	119	—	
600	1200	300	1260.500 ¹⁾³⁾	120	—	
760	760	210	1077.500 ¹⁾	119	—	
760	760	300	1073.500 ¹⁾	119	1014.600 ¹⁾ /.500 ²⁾	273
800	1000	300	1180.500 ¹⁾³⁾	119	1016.600 ¹⁾ /.500 ²⁾	273
800	1200	300	1280.500 ¹⁾³⁾	120	1017.600 ¹⁾ /.500 ²⁾	273
Double-door						
1000	760	210	1100.500 ¹⁾	120	—	
1000	760	300	1130.500 ¹⁾	120	—	
1000	1000	300	1110.500 ¹⁾³⁾	120	1018.600 ¹⁾ /.500 ²⁾	273
1000	1200	300	1213.500 ¹⁾³⁾	120	1019.600 ¹⁾	273
1000	1400	300	1114.500 ¹⁾³⁾	120	—	

¹⁾ GOST R (see page 98).

²⁾ Model No. with extension .500: Delivery times available on request.

³⁾ Same dimensions as compact system enclosures Rittal CM, see page 14.

Note: Other CM sizes, see page 14.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE



Compact enclosures AE, protection category IP 69K

Dimensions mm			Model No. AE	Cat. 31 page
Width	Height	Depth		
Single-door				
230	330	155	1101.010 ¹⁾	121
400	400	250	1101.020 ¹⁾	121
400	650	250	1101.030 ¹⁾	121
650	650	250	1101.040 ¹⁾	121

Compact enclosures AE, IP 69K in stainless steel 1.4301 (AISI 304) or 1.4404 (AISI 316L) available on request.

¹⁾ GOST R (see page 98).



1.2 Compact enclosures AK

Dimensions mm			Model No. AK	Cat. 31 page
Width	Height	Depth		
Single-door				
600	1200	400	1646.500 ¹⁾	122
800	1200	400	1648.500 ¹⁾	122

¹⁾ GOST R (see page 98).

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE

Dimensions mm			Model No. AK	Cat. 31 page
Width	Height	Depth		
Double-door				
1000	1200	400	1650.500 ¹⁾	122
1000	1400	400	1647.500 ¹⁾	122
1200	1200	400	1652.500 ¹⁾	122

¹⁾ GOST R (see page 98).

Discontinued:

Compact enclosures AK available till mid-2006. Please order our new compact system enclosures Rittal CM instead, see page 14.



1.2 Plastic enclosures KS

Dimensions mm			Door(s)	Model No. KS		Cat. 31 page
Width	Height	Depth		Viewing window		
				without	with	
200	300	150	1	1423.600¹⁾	—	123
250	350	150	1	1432.600¹⁾	—	123
300	400	200	1	1434.600¹⁾	—	123
400	400	200	1	1444.600¹⁾	1448.600¹⁾	123
400	600	200	1	1446.600¹⁾	1449.600¹⁾	123
500	500	300	1	1453.600¹⁾	1454.600¹⁾	123
600	600	200	1	1466.600¹⁾	1467.600¹⁾	123
600	800	300	1	1468.600¹⁾	1469.600¹⁾	124
800	1000	300	1	1480.600¹⁾	1479.600¹⁾	124
1000	1000	300	2	1400.600¹⁾	—	124

¹⁾ GOST R (see page 98).

Approvals:

- UL (without viewing window)
- CSA (without viewing window)
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE



! Also required:

Gland plates,
see Cat. 31, page 132.

1.3 Compact system enclosures Rittal CM

Dimensions mm			Model No. CM	Cat. 31 page
Width	Height	Depth		
Single-door				
600	800	400	5110.500	128
600	1000	400	5111.500	128
600	1200	300	5112.500	128
600	1200	400	5113.500	128
800	1000	300	5114.500	128
800	1000	400	5115.500	128
800	1200	300	5116.500	128
800	1200	400	5117.500	129

Dimensions mm			Model No. CM	Cat. 31 page
Width	Height	Depth		
Double-door				
1000	1000	300	5118.500	129
1000	1200	300	5119.500	129
1000	1200	400	5120.500	129
1000	1400	300	5121.500	129
1000	1400	400	5122.500	129
1200	1200	400	5123.500	129

Approvals:

- UL
- C-UL



! Also required:

Gland plates,
see Cat. 31, page 132.

1.3 Compact system enclosures Rittal CL

Dimensions mm			Model No. CL	Cat. 31 page
Width	Height	Depth		
Single-door				
600	1600	500	5150.500	130
600	1800	400	5151.500	130
600	2000	500	5152.500	130
800	1600	500	5153.500	130
800	1800	400	5154.500	130
800	2000	500	5155.500	130
1000	1800	400	5156.500	130

Dimensions mm			Model No. CL	Cat. 31 page
Width	Height	Depth		
Double-door				
1000	1800	400	5157.500	131
1200	1600	500	5158.500	131
1200	1800	400	5159.500	131
1200	2000	500	5160.500	131

Delivery times on request.

Delivery times on request.



1.4 Free-standing enclosure ES 5000

Dimensions mm			Model No. ES	Cat. 31 page	Model No. ES	Cat. 31 page
Width	Height	Depth				
Single-door						
600	1600	400	—		5450.600 ¹⁾	285
600	1600	500	5665.500 ¹⁾	136	—	
600	1800	400	5684.500 ¹⁾	136	—	
600	1800	500	—		5451.600 ¹⁾	285
600	2000	500	5605.500 ¹⁾	136	—	
800	1600	500	5865.500 ¹⁾	136	—	
800	1800	400	5884.500 ¹⁾	136	—	
800	1800	500	—		5452.600 ¹⁾	285
800	2000	500	5805.500 ¹⁾	136	—	
800	2000	600	—		5453.600 ¹⁾	285
1000	1800	400	5084.500 ¹⁾	136	5454.600 ¹⁾	285
Double-door						
1000	1800	400	5080.500 ¹⁾	136	—	
1200	1600	500	5265.500 ¹⁾	137	—	
1200	1800	400	5284.500 ¹⁾	137	—	
1200	2000	500	5205.500 ¹⁾	137	5455.600 ¹⁾	285
1600	1800	400	5784.500 ¹⁾	137	—	
1800	2000	500	5905.500 ¹⁾	137	—	

¹⁾ GOST R (see page 98).

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE



1.4 Baying system TS 8

Dimensions mm			Model No. TS	Cat. 31 page	Model No. TS	Cat. 31 page
Width	Height	Depth	Sheet steel		Stainless steel	
Single-door						
400	1800	500	8485.510 ¹⁾²⁾	141	—	
400	1800	600	8486.510 ¹⁾²⁾	142	—	
400	2000	500	8405.510 ¹⁾²⁾	144	—	
400	2000	600	8406.510 ¹⁾²⁾	145	—	
600	1200	500	8625.500	—	—	
600	1400	500	8645.500 ¹⁾	138	—	
600	1600	500	8665.500 ¹⁾	139	—	
600	1800	400	8684.500 ¹⁾	140	—	
600	1800	500	8685.500 ¹⁾	141	8457.600 ¹⁾	284
600	1800	600	8686.500 ¹⁾	142	—	
600	2000	400	8604.500 ¹⁾	143	—	
600	2000	500	8605.500 ¹⁾	144	—	
600	2000	600	8606.500 ¹⁾	145	8452.600 ¹⁾	284
600	2000	800	8608.500 ¹⁾	146	—	
600	2200	600	8626.500 ¹⁾	147	—	
800	1200	500	8825.500	—	—	
800	1400	500	8845.500 ¹⁾	138	—	
800	1600	500	8865.500 ¹⁾	139	—	
800	1800	400	8884.500 ¹⁾	140	8454.600 ¹⁾	284
800	1800	500	8885.500 ¹⁾	141	8455.600 ¹⁾	284
800	1800	600	8886.500 ¹⁾	142	—	
800	2000	400	8804.500 ¹⁾	143	—	
800	2000	500	8805.500 ¹⁾	144	—	
800	2000	600	8806.500 ¹⁾	145	8450.600 ¹⁾	284
800	2000	800	8808.500 ¹⁾	146	—	
800	2200	600	8826.500 ¹⁾	147	—	
1000	1800	400	8084.500 ¹⁾	140	—	
Double-door						
800	1800	500	8880.500 ¹⁾	141	—	
800	1800	600	8881.500 ¹⁾	142	—	
1000	1800	400	8080.500 ¹⁾	140	—	
1000	2000	500	8005.500 ¹⁾	144	—	
1000	2000	600	8006.500 ¹⁾	145	—	
1200	1200	500	8225.500	—	—	
1200	1400	500	8245.500 ¹⁾	138	—	
1200	1600	500	8265.500 ¹⁾	139	—	
1200	1800	400	8284.500 ¹⁾	140	8456.600	284
1200	1800	500	8285.500 ¹⁾	141	8453.600	284
1200	1800	600	8286.500 ¹⁾	142	—	
1200	2000	400	8204.500 ¹⁾	143	—	
1200	2000	500	8205.500 ¹⁾	144	—	
1200	2000	600	8206.500 ¹⁾	145	8451.600	284
1200	2000	800	8208.500 ¹⁾	146	—	
1200	2200	600	8226.500 ¹⁾	147	—	

¹⁾ GOST R (see page 98).

²⁾ Without tubular door frame, mounting plate and gland plates.

Approvals:

- UL
- CSA
- TÜV
- Russian Maritime Register of Shipping
- TÜV Mark
- Lloyds Register of Shipping
- Bureau Veritas
- VDE
- Germanischer Lloyd



1.4 Baying system TS 8

Electronic enclosure

Dimensions mm			Model No. TS	Cat. 31 page
Width	Height	Depth	Enclosure	
600	1600	600	8410.510¹⁾	148
600	1600	800	8418.510¹⁾	148
600	2000	600	8430.510¹⁾	148
600	2000	800	8438.510¹⁾	148

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



for modular front design

Dimensions mm			Model No. TS	Cat. 31 page
Width	Height	Depth	Enclosure	
600	2000	600	8606.512¹⁾	149
800	2000	600	8806.512	149

¹⁾ GOST R (see page 98).



for isolator door locking

Dimensions mm			Model No. TS	Cat. 31 page
Width	Height	Depth	Enclosure	
800	1800	400	8984.500¹⁾	150
800	1800	500	8985.500¹⁾	150
800	2000	500	8905.500¹⁾	150
800	2000	600	8906.500¹⁾	150

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



IP 65/NEMA 4x, NEMA 4

Dimensions mm			Model No. TS	Cat. 31 page
Width	Height	Depth	Enclosure	
NEMA 4x, stainless steel				
600	1800	600	8458.640	151
800	1800	600	8459.640	151
600	2000	600	8452.640	151
800	2000	600	8450.640	151
NEMA 4, sheet steel				
600	1800	600	8686.540	151
800	1800	600	8886.540	151
600	2000	600	8606.540	151
800	2000	600	8806.540	151

Delivery times on request.

Approvals:

- UL
- C-UL



1.4 Baying system TS 8 prepared for Ex pressurisation

Dimensions mm			Model No. TS	Cat. 31 page	Model No. TS	Cat. 31 page
Width	Height	Depth				
			Sheet steel		Stainless steel	
600	1400	500	8645.560	152	—	
800	1400	500	8845.560	152	—	
600	1600	500	8665.560	152	—	
800	1600	500	8865.560	152	—	
600	1800	400	8684.560	152	—	
800	1800	400	8884.560	152	8454.660	152
1000	1800	400	8084.560	152	8461.660	152
600	1800	500	8685.560	152	8457.660	152
800	1800	500	8885.560	152	8455.660	152
600	1800	600	8686.560	152	8458.660	152
800	1800	600	8886.560	152	—	
600	2000	400	8604.560	152	—	
800	2000	400	8804.560	152	—	
600	2000	500	8605.560	152	—	
800	2000	500	8805.560	152	—	
600	2000	600	8606.560	152	8452.660	152
800	2000	600	8806.560	152	8450.660	152
600	2000	800	8608.560	152	—	
800	2000	800	8808.560	152	8460.660	152
600	2200	600	8626.560	152	—	
800	2200	600	8826.560	152	—	



1.4 Baying system TS 8 for areas at risk of earthquakes

Further information available on request.



1.5 Comfort Panel

Individual sizes and design to specifications of operating/keyboard housings



1.5 Comfort Panel

Standard sizes

		Command panels						Keyboard housing	
To fit front panels	Width x height mm	482.6 (19") x 310.3 (7 U)				430 x 343	482.6 (19") x 354.8 (8 U)	482.6 (19") x 155 (3.5 U)	482.6 (19") x 177 (4 U)
To fit TFT monitor (see Cat. 31, page 1046)		–	–	–	–	6450.010/.030	6450.020/.040	–	–
Installation depth:		74	152	191	308	74		74	
Width mm		591				538	591	591	
Height mm		419				452	464	264	286
Depth mm		92	170	209	326	92		92	
Support arm connection		Model No. CP						Model No. CP without support arm connection	
CP-L (see Cat. 31, page 200)		 120 x 65 mm 1.4	Ø 130 mm 1.1	Ø 130 mm 1.1	Ø 130 mm 1.1	 120 x 65 mm 1.4	 120 x 65 mm 1.4	–	–
Top or bottom, by rotating the enclosure		6371.000	6371.030 ¹⁾	6371.060	6371.090 ²⁾	6371.120	6371.150	6371.180	6371.200
Top, with cable tube cut-out at the bottom		6371.010	6371.040	6371.070	6371.100 ²⁾	6371.130	6371.160	6371.190 ³⁾	6371.210 ³⁾
Bottom, with cable tube cut-out at the bottom		6371.020	6371.050	6371.080	6371.110 ²⁾	6371.140	6371.170	–	–
Front frame hinged		–	–	■	■	–	–	–	–
Rear panel	Hinged	■	■	■	■	■	■	–	–
	Screw fastened	–	–	–	–	–	–	■	■

¹⁾ GOST R (see page 98).

²⁾ Enclosure with fins at the sides to boost the dissipation of heat.

³⁾ Cable tube cut-out at the bottom.



1.5 VIP 6000

Selection of operating/keyboard housings see Cat. 31, page 154 – 169.

Individual sizes and design to specifications.

Approvals:

- UL
- CSA
- TÜV
- DNV
- Lloyds Register of Shipping
- BV
- VDE



1.5 Optipanel

Selection of operating/keyboard housings see Cat. 31, page 170 – 177.

Individual sizes and design to specifications.



1.5 Optipanel

Standard sizes

To fit front panels mm	To fit TFT monitor Model No. SM	Dimensions mm			Model No. CP	Cat. 31 page	Rear panel, hinged		Support arm connection
		Width	Height	Depth			Quick- release fastener for screwdriver	Cam with double-bit insert	
270 x 234	–	314	278	60	6380.100¹⁾	178	–	■	CP-S VESA 75
482.6 x 310.3	–	527	354	110	6380.000	178	–	■	CP-L ²⁾
430 x 343	6450.010/.030	475	387	60	6380.010	178	■	–	CP-L ²⁾ , rear
430 x 343	6450.010/.030	475	387	110	6380.020¹⁾	178	–	■	CP-L ²⁾
482.6 x 354.8	6450.020/.040	527	399	60	6380.030¹⁾	178	■	–	CP-L ²⁾ , rear
482.6 x 354.8	6450.020/.040	527	399	110	6380.040¹⁾	178	–	■	CP-L ²⁾

¹⁾ GOST R (see page 98).

²⁾ □ 120 x 65 mm.



1.5 Compact Panel

Dimensions mm			To fit		Model No. CP			Cat. 31 page
Width	Height	Depth	Front panel width mm	Front panel height mm	With support arm connection CP-S	With support arm connection CP-L ¹⁾	Without support arm connection	
241	238	87	178	200	6340.000	6340.010	6340.020	183
241	388	87	178	350	6340.100	6340.110	6340.120	183
241	521	87	178/4 U	482.6/19~	6340.200	6340.210	6340.220	183
315	238	87	252	200	6340.300	6340.310	6340.320	183
315	388	87	252	350	6340.400	6340.410	6340.420	183

¹⁾ □ 120 x 65 mm.



1.5 Command panel housing with door based on AE

Dimensions mm			Model No. CP	Cat. 31 page	Model No. CP	Cat. 31 page
Width	Height	Depth	Sheet steel		Stainless steel 1.4301/1.4404 (AISI 304/AISI 316L)	
300	200	180	6534.000 ¹⁾	184	—	
300	300	150	—		6535.010 ¹⁾ /510	276
300	300	180	6535.000 ¹⁾	184	—	
300	400	180	6537.000 ¹⁾	184	—	
400	300	150	—		6536.010 ¹⁾ /510	276
400	300	180	6536.000 ¹⁾	184	—	
400	400	150	—		6538.010 ¹⁾ /510	276
400	400	180	6538.000 ¹⁾	184	—	
500	500	180	6544.000	184	—	
600	400	150	—		6539.010 ¹⁾ /510	276

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



1.5 Operating housing based on AE

Dimensions mm			Model No. CP	Cat. 31 page
Width	Height	Depth		
300	200	155	6540.200 ¹⁾	185
380	300	210	6531.200 ¹⁾	185
380	380	210	6530.200 ¹⁾	185
500	500	210	6532.200 ¹⁾	185
600	380	210	6533.200 ¹⁾	185

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



1.5 Operating housing based on AE with display panel front

Dimensions mm			Model No. CP	Cat. 31 page
Width	Height	Depth		
380	380	249	6442.500 ¹⁾	186
380	600	249	6462.500 ¹⁾	186
500	500	249	6552.500 ¹⁾	186
600	600	249	6662.500 ¹⁾	186

¹⁾ GOST R (see page 98).

Operating housing based on AE with wide VIP 6000 frame see Cat. 31, page 187.

Approvals:

- UL
- C-UL

1.5 Support arm systems



Fast selection of CP-S
see Cat. 31, page 191.



Fast selection of CP-L
see Cat. 31, page 200.



Fast selection of CP-XL
see Cat. 31, page 218.



Support arm system CP-Q
see Innovations 2005, page 34.



Support arm system CP-S, stainless steel
see Cat. 31, page 277.

1.5 Stand systems

Selection,
see Cat. 31, from page 228.



1.5 Industrial workstations

Approvals,
may be found on our website: www.rittal.com



Fast selection
see Cat. 31, page 240.



Monitor housing



Glazed door



Drawer



Worktop



1.5 PC enclosure systems

Dimensions mm			Model No. PC	Cat. 31 page	Model No. PC	Cat. 31 page	Model No. PC	Cat. 31 page	Model No. PC	Cat. 31 page	Model No. PC	Cat. 31 page
Width	Height	Depth	With keyboard drawer, glazed door, top		With keyboard drawer, glazed door, top, mounting compartment, small		With keyboard drawer, mounting compartment, large		With folding keyboard, glazed door, top		With desk section, glazed door, top	
Based on TS 8												
600	1600	636	8366.000	257	8366.300	257	8366.400	257	8366.100	258	8366.200	258
600	1600	836	8368.000	257	—		—		8368.100	258	—	
Based on ES												
600	1600	650	4603.703	259	4603.913	259	4603.603	259	4603.920	260	4603.704	260
600	1600	850	4609.703	259	—		—		4609.920	260	—	
Stainless steel												
600	1600	620	4650.000	283	—		—		—		4650.704	283

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- VDE



1.5 Console systems AP

Combination options of the modules

see Cat. 31, page 262.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- VDE



1.5 Consoles

Dimensions mm			Model No. AP	Cat. 31 page
Width	Height	Depth		
Cover, front				
800	430	400	2612.500	264
1200	430	400	2642.500	264
1600	430	400	2652.500	264
Cover, front and rear				
800	430	500	2614.500	264
1200	430	500	2644.500	264
1600	430	500	2654.500	264
800	630	500	2647.500	264
1200	630	500	2648.500	264
1600	630	500	2649.500	264

Delivery times on request.



1.5 Desk units

Dimensions mm			Model No. AP	Cat. 31 page
Width	Height	Depth		
For depth 400 mm (consoles)				
800	200	850	2611.500	264
1200	200	850	2641.500	264
1600	200	850	2651.500	264

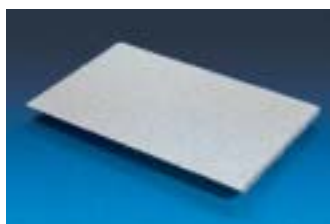
Dimensions mm			Model No. AP	Cat. 31 page
Width	Height	Depth		
For depth 500 mm (consoles)				
800	200	950	2613.500	264
1200	200	950	2643.500	264
1600	200	950	2653.500	264



1.5 Pedestals

Dimensions mm			Model No. AP	Cat. 31 page
Width	Height	Depth		
Door(s) front				
800	670	400	2600.500	265
1200	670	400	2620.500	265
1600	670	400	2630.500	265

Dimensions mm			Model No. AP	Cat. 31 page
Width	Height	Depth		
Door(s) front and rear				
800	670	500	2610.500	265
1200	670	500	2640.500	265
1600	670	500	2650.500	265



1.5 Trim panel

for console, desk unit and pedestal

To fit		Model No. AP	Cat. 31 page
Width mm	Depth mm		
800	400	2615.500	265
1200	400	2645.500	265
1600	400	2655.500	265
800	500	2616.500	265
1200	500	2646.500	265
1600	500	2656.500	265



1.5 One-piece consoles AP

Dimensions mm			Model No. AP	Cat. 31 page	Model No. AP	Cat. 31 page
Width	Height	Depth				
Single-door						
600	960	400/480	2666.500	266	2683.600	282
800	960	400/480	2668.500	266	2684.600	282
Double-door						
1000	960	400/480	2670.500	266	2685.600	282
1200	960	400/480	2672.500	266	2686.600	282

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- VDE



1.5 Universal consoles AP

Dimensions mm			Model No. AP	Cat. 31 page
Width	Height	Depth		
With short front door				
600	1300	500	2694.500	267
With tall front door				
600	1300	500	2695.500	267

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- VDE



1.6 Stainless steel

Terminal boxes KL see Cat. 31, page 23

Compact enclosures AE see Cat. 31, page 26

Command panel housing with door see Cat. 31, page 32

Support arm system CP-S see Cat. 31, page 277

Stand systems see Cat. 31, page 281

One-piece consoles AP see Cat. 31, page 36

PC enclosure systems see Cat. 31, page 34

Baying systems TS 8 see Cat. 31, page 29

Free-standing enclosure ES 5000 see Cat. 31, page 28



1.6 Premium Line KL, protection category IP 69K, stainless steel

Dimensions mm			Model No. KL	Cat. 31 page
Width	Height	Depth		
150	150	80	1024.010	271
150	150	120	1024.020	271
300	200	120	1024.030	271
400	300	120	1024.040	271



1.6 Bus enclosures BG, stainless steel

Dimensions mm			Model No. BG	Cat. 31 page
Width	Height	Depth		
200	300	80	1583.010	272
300	300	80	1584.010	272
400	300	80	1585.010	272
400	200	123	1558.010	272
600	200	123	1559.010	272

Approvals:

- TÜV
- Lloyd's Register of Shipping
- VDE
- UL
- C-UL



1.6 Premium Panel, protection category IP 69K, stainless steel

Dimensions mm								Support arm connection	Model No. CP	Cat. 31 page
Width	Height		Depth	For installation panel W x H		Installation depth				
	Operating housing	Keyboard housing	Operating housing	Operating housing	Keyboard housing	Operating housing	Keyboard housing			
With keyboard housing										
530	460	200	120	482.6 mm (19") x 354.8 mm (8 U)	482.6 mm (19") x 177 mm (4 U)	115	front 58 rear 63	top	6680.000	274
530	460	200	120			115	front 58 rear 63	bottom	6680.010	274
530	460	200	220			215	front 58 rear 63	top	6680.100	274
530	460	200	220			215	front 58 rear 63	bottom	6680.110	274
Without keyboard housing										
530	360	–	120	482.6 mm (19") x 310 mm (7 U)	–	115	–	top or bottom by rotating the enclosure	6681.000	274
530	360	–	220			215	–	6681.100	274	



1.6 Operating housing, stainless steel

Dimensions mm			Model No. CP	Cat. 31 page
Width	Height	Depth		
320	240	160	6670.000	275
400	320	160	6672.000	275

Approvals:

- CSA
- UL
- C-UL



1.7 Ex enclosures, stainless steel

with screw fastened lid

Dimensions mm			Model No. KEL	Cat. 31 page
Width	Height	Depth		
150	150	80	9301.000	287
200	200	80	9303.000	287
300	150	80	9302.000	287
300	200	80	9304.000	287
300	300	120	9306.000	287
400	200	120	9305.000	287

with hinged door

Dimensions mm			Number of fasteners	Model No. KEL	Cat. 31 page
Width	Height	Depth			
200	300	155	1	9401.600	287
300	380	210	1	9409.600	287
380	300	155	1	9402.600	287
380	380	210	1	9403.600	287
380	600	210	2	9404.600	287
600	600	210	2	9405.600	287
600	760	210	2	9406.600	287
760	760	300	2	9407.600	287
800	1000	300	2	9408.600	287

Approvals:

- PTB



1.7 Ex enclosures, plastic

Dimensions mm			Model No. KEL	Cat. 31 page
Width	Height	Depth		
200	300	150	9201.600	288
250	350	150	9202.600	288
300	400	200	9203.600	288
400	400	200	9204.600	288
400	600	200	9205.600	288
500	500	300	9207.600	288
600	600	200	9206.600	288
600	800	300	9208.600	288
800	1000	300	9209.600	288

Approvals:

- PTB



1.8 EMC enclosures

EMC baying systems TS 8

EMC E-Box EB

EMC free-standing enclosure ES 5000

Delivery times on request.



1.8 EMC terminal boxes KL

Dimensions mm			Model No. KL	Cat. 31 page
Width	Height	Depth		
300	300	120	1507.710	290

Approvals:

- UL
- CSA
- TÜV
- Norske Veritas
- Lloyds Register of Shipping
- VDE



1.8 EMC compact enclosures AE

Dimensions mm			Model No. AE	Cat. 31 page
Width	Height	Depth		
380	380	210	1380.700	290
600	380	210	1039.700	290
600	600	210	1060.700	290
800	1000	300	1180.700	290

Approvals:

- UL
- CSA
- TÜV
- Norske Veritas
- Lloyds Register of Shipping
- VDE



1.9 Modular enclosure technology

Compact enclosures AE (mounting plate with modular pitch pattern of holes)

see Cat. 31, page 295

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE



1.9 Modular enclosure technology

Baying systems TS 8 (mounting plate with modular pitch pattern of holes) see Cat. 31, page 295

Approvals:

- UL
- CSA
- TÜV
- Russian Maritime Register of Shipping
- TÜV Mark
- Lloyds Register of Shipping
- Bureau Veritas
- VDE
- Germanischer Lloyd



Power distribution – the benefit lies in the system

Modern power distribution systems are becoming ever more powerful. For this reason, users demand the security of internationally recognised and approved power distribution components. Rittal provides the switchgear designer with innovative systems which conform to the relevant regulations. Type testing on short-circuit resistance, which is performed in accredited laboratories, provides an impressive testimony to the suitability of Rittal busbar systems.

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- SV-TS 8 and Maxi-PLS
- ISV distribution enclosure
- ISV wall-mounted distributor



Detailed information and the current status of approvals can be found on our website at www.rittal.com

2.1 Busbar systems up to 250 A (40 mm)

Rittal Mini-PLS

Description	Length mm	Packs of	Model No. SV	Cat. 31 page
Mini-PLS busbar supports up to 250 A, 690 V~, 3-pole, 40 mm bar centre distance	–	4	9600.000	302
Mini-PLS end cover	–	2	9610.000	302
Mini-PLS special busbars E-Cu 250 A, 120 mm ²	500	3	9601.000¹⁾	302
	700	3	9602.000¹⁾	302
	1100	3	9603.000¹⁾	302
	1500	3	9624.000¹⁾	302
Mini-PLS base tray sections	250	1	9604.000	302
	500	1	9605.000	302
	700	1	9606.000	302
	1100	1	9607.000	302
Mini-PLS cover sections	250	1	9608.000	302
	500	1	9609.000	302

¹⁾ GOST R (see page 98).



Mini-PLS busbar connection adaptor

Version	Packs of	Model No. SV	Cat. 31 page
63 A, 690 V AC, connection top/bottom for round conductors 1.5 to 35 mm ² and laminated copper bars, clamping area 10 x 8 mm	1	9613.000¹⁾	303
250 A, 690 V AC, connection top/bottom for round conductors 10 to 120 mm ² and laminated copper bars, clamping area 17 x 15 mm	1	9612.000¹⁾	303

¹⁾ GOST R (see page 98).



2.1 Busbar systems up to 250 A (40 mm)

Mini-PLS component adaptor

Cable outlet at the top

Construction width mm	Rated current up to	Rated operating voltage	Connection cables ²⁾	Support rails		Packs of	Model No. SV	Cat. 31 page
				Height mm	Number			
45	12 A	690 V~	AWG 14	7.5	1	1	9614.110 ¹⁾	304
45	25 A	690 V~	AWG 12	7.5	1	1	9614.100 ¹⁾	304
45	25 A	690 V~	AWG 12	15	1	1	9615.100 ¹⁾	304
54	25 A	690 V~	AWG 12	7.5	1	1	9614.000 ¹⁾	304
54	25 A	690 V~	AWG 12	15	1	1	9615.000 ¹⁾	304
72	25 A	690 V~	AWG 12	7.5	1	1	9625.000 ¹⁾	304
72	25 A	690 V~	AWG 12	15	1	1	9626.000 ¹⁾	304
90	25 A	690 V~	AWG 12	7.5	1	1	9629.010 ¹⁾	304
99	25 A	690 V~	AWG 12	15	1	1	9629.020 ¹⁾	304
108	25 A	690 V~	AWG 12	7.5	1	1	9629.030 ¹⁾	304
54	40 A	690 V~	AWG 10	7.5	1	1	9616.000 ¹⁾	306
54	40 A	690 V~	AWG 10	15	1	1	9617.000 ¹⁾	306
72	40 A	690 V~	AWG 10	7.5	1	1	9627.000 ¹⁾	306
72	40 A	690 V~	AWG 10	15	1	1	9628.000 ¹⁾	306
90	100 A	690 V~	35 mm ²	mounting plate		1	9629.000 ¹⁾	306

¹⁾ GOST R (see page 98).

²⁾ AWG = American Wire Gauges

AWG 14 = 2.08 mm² ± 2.5 mm²

AWG 12 = 3.31 mm² ± 4 mm²

AWG 10 = 5.26 mm² ± 6 mm²

Note:

For allocation of "power circuit-breakers/starter combinations", see Cat. 31, page 1128/1129.



Mini-PLS quick-fit component adaptor

Construction width mm	Rated current up to ²⁾	Rated operating voltage	For power circuit-breakers	Packs of	Model No. SV	Cat. 31 page
54	25 A (32 A)	690 V~	AEG, General Electric, Schiele	1	9618.000 ¹⁾	305
54	25 A (32 A)	690 V~	Moeller Electric	1	9619.000 ¹⁾	305
54	25 A (32 A)	690 V~	Allen Bradley, Moeller	1	9620.000 ¹⁾	305
54	25 A (32 A)	690 V~	Telemecanique	1	9621.000 ¹⁾	305
54	25 A (32 A)	690 V~	ABB, Siemens, Telemecanique	1	9622.000 ¹⁾	305

¹⁾ GOST R (see page 98).

²⁾ Rated current 25 A at 35°C and 32 A at 25°C ambient temperature.

Note:

For allocation of "power circuit-breakers/starter combinations", see Cat. 31, page 1128.



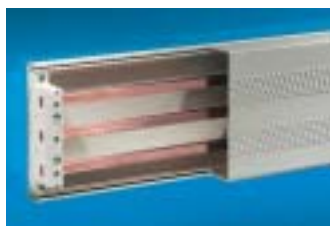
Mini-PLS bus-mounting fuse base

Version	Packs of	Model No. SV	Cat. 31 page
D 02-E 18, 63 A, 400 V~, terminal for round conductors 1.5 – 16 mm ²	1	9630.000 ¹⁾	307

NH on-load isolators

Version	Packs of	Model No. SV	Cat. 31 page
Size 000, 100 A, 690 V~, cable outlet top/bottom, terminal up to 50 mm ²	1	3431.000 ¹⁾	307
Mini-PLS busbar adaptor for SV 3431.000	1	9629.100 ¹⁾	307

¹⁾ GOST R (see page 98).



2.1 Busbar systems up to 360 A (40 mm)

System components

Description	Dimensions mm	Length mm	Packs of	Model No. SV	Cat. 31 page
Busbar support up to 360 A, 690 V~, 3-pole, 40 mm bar centre distance, for busbars E-Cu 12 x 5 up to 15 x 10 mm	—	—	4	9350.000¹⁾	308
End cover	—	—	2	9610.000	308
Busbars E-Cu	12 x 5	2400	6	3580.000¹⁾	308
	12 x 10	2400	6	3580.100¹⁾	308
	15 x 5	2400	6	3581.000¹⁾	308
	15 x 10	2400	6	3581.100¹⁾	308
Base tray sections	—	250	1	9604.000	309
	—	500	1	9605.000	309
	—	700	1	9606.000	309
	—	1100	1	9607.000	309
Cover sections	—	250	1	9608.000	309
	—	500	1	9609.000	309
Busbar cover sections for busbars	12/15 x 5 mm	—	1000	9350.010¹⁾	309
	12/15 x 10 mm	—	1000	9350.060¹⁾	309

¹⁾ GOST R (see page 98).



Busbar connection adaptor

Version	For busbars mm	Packs of	Model No. SV	Cat. 31 page
360 A, 690 V~, for round conductors 10 – 120 mm ² (max. 250 A) and laminated copper bars (max. 360 A), clamping area 17 x 15 mm	12 x 5/10	1	9350.020¹⁾	310
	15 x 5/10	1	9350.030¹⁾	310

¹⁾ GOST R (see page 98).



Bus-mounting fuse base

Version	For busbars mm	Packs of	Model No. SV	Cat. 31 page
D 02-E 18, 63 A, 400 V~, terminal for round conductors 1.5 – 16 mm ²	12 x 5/10	1	9350.050¹⁾	311
	15 x 5/10	1	9350.500¹⁾	311

NH on-load isolators

Version	For busbars mm	Packs of	Model No. SV	Cat. 31 page
Size 000, 100 A, 690 V~, cable outlet top/bottom, terminal up to 50 mm ²	—	1	3431.000¹⁾	311
Busbar adaptor for SV 3431.000	12 x 5/10	1	9350.400¹⁾	311
	15 x 5/10	1	9350.410¹⁾	311

¹⁾ GOST R (see page 98).



2.1 Busbar systems up to 360 A (40 mm)

Multi-functional component adaptor

Con- struction width mm	Rated current up to	Rated operating voltage	Connection cables ²⁾	Connection of round conductors up to	Cable outlet	Support rails		For bar thickness mm	Packs of	Model No. SV	Cat. 31 page
						Height mm	Number				
45	12 A	690 V~	AWG 14	—	top	10	1	5	1	9350.080 ¹⁾	312
45	12 A	690 V~	AWG 14	—	top	10	1	10	1	9350.090 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	1	5	1	9350.100 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	1	10	1	9350.110 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	2	5	1	9350.120 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	2	10	1	9350.130 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	2	5	1	9350.260 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	2	10	1	9350.270 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	2 (1 var.)	5	1	9350.140 ¹⁾	312
45	25 A	690 V~	AWG 12	—	top	10	2 (1 var.)	10	1	9350.150 ¹⁾	312
90	25 A	690 V~	AWG 12	—	top	10	1	5	1	9350.280 ¹⁾	313
90	25 A	690 V~	AWG 12	—	top	10	1	10	1	9350.290 ¹⁾	313
99	25 A	690 V~	AWG 12	—	top	10	2	5	1	9350.300 ¹⁾	313
99	25 A	690 V~	AWG 12	—	top	10	2	10	1	9350.310 ¹⁾	313
108	25 A	690 V~	AWG 12	—	top	10	2	5	1	9350.320 ¹⁾	313
108	25 A	690 V~	AWG 12	—	top	10	2	10	1	9350.330 ¹⁾	313
45	25 A	690 V~	—	16 mm ²	top	10	2 (1 var.)	5	1	9350.160 ¹⁾	314
45	25 A	690 V~	—	16 mm ²	top	10	2 (1 var.)	10	1	9350.170 ¹⁾	314
45	25 A	690 V~	—	16 mm ²	top/ bottom	10	2	5	1	9350.180 ¹⁾	314
45	25 A	690 V~	—	16 mm ²	top/ bottom	10	2	10	1	9350.190 ¹⁾	314
54	40 A	690 V~	—	16 mm ²	top	10	2	5	1	9350.220 ¹⁾	314
54	40 A	690 V~	—	16 mm ²	top	10	2	10	1	9350.230 ¹⁾	314
54	40 A	690 V~	—	16 mm ²	top/ bottom	10	2	5	1	9350.240 ¹⁾	314
54	40 A	690 V~	—	16 mm ²	top/ bottom	10	2	10	1	9350.250 ¹⁾	314
54	40 A	690 V~	AWG 10	—	top	10	2	5	1	9350.200 ¹⁾	315
54	40 A	690 V~	AWG 10	—	top	10	2	10	1	9350.210 ¹⁾	315
54	40 A	690 V~	AWG 10	—	top	15	1	5	1	9350.340 ¹⁾	315
54	40 A	690 V~	AWG 10	—	top	15	1	10	1	9350.350 ¹⁾	315

¹⁾ GOST R (see page 98).

²⁾ AWG = American Wire Gauges

AWG 14 = 2.08 mm² ± 2.5 mm²

AWG 12 = 3.31 mm² ± 4 mm²

AWG 10 = 5.26 mm² ± 6 mm²

Note:

For allocation of "power circuit-breakers/starter combinations", see Cat. 31, page 1129/1130.



Component adaptor

Version	For busbars mm	Packs of	Model No. SV	Cat. 31 page
100 A, 690 V~, construction width 90 mm, connection cables 35 mm ² , cable outlet at the top	12 x 5/10	1	9350.420 ¹⁾	315
	15 x 5/10	1	9350.430 ¹⁾	315

¹⁾ GOST R (see page 98).

Note:

For allocation of "power circuit-breakers/starter combinations", see Cat. 31, page 1130.

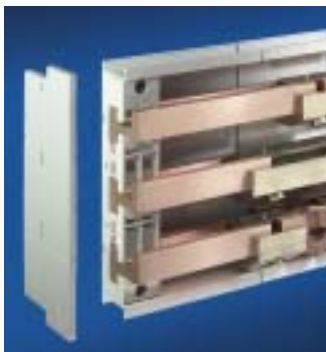


Rittal RiLine60 busbar systems 800 A (60 mm)

System components for flat bar systems

Description	Dimensions mm	Length mm	Packs of	Model No. SV
Busbar support, 3-pole, 60 mm bar centre distance, for busbars E-Cu 15 x 5 up to 30 x 10 mm				
– with attachment holes on the outside	–	–	4	9340.010
– with attachment holes on the inside	–	–	4	9340.000
End cover	–	–	2	9340.070
Busbars E-Cu	15 x 5	2400	6	3581.000
	15 x 10	2400	6	3581.100
	20 x 5	2400	6	3582.000 ¹⁾
	20 x 10	2400	6	3585.000 ¹⁾
	25 x 5	2400	6	3583.000 ¹⁾
	30 x 5	2400	6	3584.000 ¹⁾
Busbar cover section	30 x 10	2400	6	3586.000 ¹⁾
	–	1000	10	3092.000 ¹⁾
	–	500	2	9340.100
	–	700	2	9340.110
Base tray	–	900	2	9340.120
	–	1100	2	9340.130
	–	700	2	9340.200
Cover section	–	1100	2	9340.210
	–	500	2	9340.150
Base tray reinforcement	–	1000	2	9340.160
	–	–	5	9340.220
Support panel for cover section	–	–	5	9340.220

¹⁾ GOST R (see page 98).



Rittal RiLine60 busbar systems 800 A/1600 A (60 mm)

System components for PLS busbar systems

Description	For PLS system	For PLS bar cross-section (bar thickness)	Packs of	Model No. SV
PLS busbar support, 3-pole, 60 mm bar centre distance	800 A	300 mm ² (5 mm)	4	9341.000
	1600 A	900 mm ² (10 mm)	4	9342.000

Description	Length mm	For bar width mm	Packs of	Model No. SV	
				for PLS 800 A	for PLS 1600 A
End cover	–	–	2	9341.070	9342.070
	2400	variable	1	3509.000	3516.000
	495	600	3	3524.000 ¹⁾	3527.000 ¹⁾
	695	800	3	3525.000 ¹⁾	3528.000 ¹⁾
	895	1000	3	3525.010	3528.010
PLS special busbars E-Cu ²⁾	1095	1200	3	3526.000 ¹⁾	3529.000 ¹⁾
	500	–	2	9341.100	9342.100
	700	–	2	9341.110	9342.110
	900	–	2	9341.120	9342.120
	1100	–	2	9341.130	9342.130
Base tray	700	–	2	9340.200	9340.200
	1100	–	2	9340.210	9340.210
Cover section	500	–	2	9341.150	9342.150
	1000	–	2	9341.160	9342.160
Support panel for cover section	–	–	5	9340.220	9340.220

¹⁾ GOST R (see page 98).

²⁾ Bar cross-section (bar thickness)

PLS 800 A: 300 mm² (5 mm)

PLS 1600 A: 900 mm² (10 mm)



Rittal RiLine60

Connection adaptor

Rated current up to	Rated operating voltage	Connection of round conductors up to mm ²			Clamping area for laminated copper bars mm	Outlet	Packs of	Model No. SV
		Fine wire with wire end ferrule	Multi-wire	Solid				
63 A	690 V~	2.5 – 10	16	2.5 – 16	–	top	1	9342.200
						bottom	1	9342.210
125 A	690 V~	10 – 15	16 – 35	–	10 x 7.8	top/bottom	1	9342.220
						top	1	9342.230
250 A	690 V~	35 – 120	35 – 120	–	18.5 x 15.5	bottom	1	9342.240
						top/bottom	1	9342.250
800 A	690 V~	95 – 185	95 – 300	–	33 x 20	top	1	9342.260
						bottom	1	9342.270
						top/bottom	1	9342.280
						top	1	9342.290
						bottom	1	9342.300

Other connection adaptors for RiLine60 system – model no. SV 3439.000, 3439.010, 3517.000 – see Cat. 31, page 36.

Connection clamps

see Cat. 31, page 324.



Rittal RiLine60

OM adaptor

Construction width mm	Rated current up to	Rated operating voltage	Connection of round conductors mm ²	Connection cables ¹⁾	With support frame mm	With support frame supports	Number of support rails (height 10 mm)	With Pin-Block	Packs of	Model No. SV
With tension spring clamps										
45	25 A	690 V~	1.5 – 4	–	45 x 237	■	1	■	1	9340.900 ²⁾
45	32 A	690 V~	1.5 – 6	–	–	–	1	–	1	9340.510
45	32 A	690 V~	1.5 – 6	–	45 x 170	–	1	–	1	9340.530
45	32 A	690 V~	1.5 – 6	–	45 x 170	–	1	■	1	9340.550
55	32 A	690 V~	1.5 – 6	–	55 x 170	–	1	–	1	9340.660
55	65 A	690 V~	2.5 – 16	–	–	–	1	–	1	9340.610
55	65 A	690 V~	2.5 – 16	–	55 x 170	–	1	–	1	9340.630
55	65 A	690 V~	2.5 – 16	–	55 x 237	■	2 ³⁾	–	1	9340.650
With connection cables										
45	25 A	690 V~	–	AWG 12	–	–	1	–	1	9340.310
45	25 A	690 V~	–	AWG 12	45 x 170	–	1	–	1	9340.340
45	25 A	690 V~	–	AWG 12	45 x 170	–	1	■	1	9340.370
55	32 A	690 V~	–	AWG 10	55 x 170	–	1	–	1	9340.460
55	65 A	690 V~	–	AWG 6	–	–	1	–	1	9340.410
55	65 A	690 V~	–	AWG 6	55 x 170	–	1	–	1	9340.430
55	65 A	690 V~	–	AWG 6	55 x 237	■	2 ³⁾	–	1	9340.450

¹⁾ AWG = American Wire Gauges

AWG 12 = 3.31 mm² ± 4 mm²

AWG 10 = 5.26 mm² ± 6 mm²

AWG 6 = 13.3 mm² ± 16 mm²

²⁾ OM Premium adaptor with connector outlet. Sub-unit with connection facilities for 3 main contacts (1.5 – 4 mm²) and 8 auxiliary contacts (0.5 – 2.5 mm²) including connectors.

³⁾ The lower support rail with special latch is attached from the rear with the support frame loosened.

Note:

Overview of switchgear with appropriate adaptor, see RiLine60 brochure, page 54/55.



Rittal RiLine60

OT adaptor

Construction width mm	Rated current up to	Rated operating voltage	Connection of round conductors mm ²	Connection cables ¹⁾	With support frame mm	Number of support rails (height 10 mm)	With Pin-Block	Packs of	Model No. SV
With tension spring clamps									
45	25 A	690 V~	1.5 – 4	–	45 x 237	1	■	1	9341.900 ²⁾
45	32 A	690 V~	1.5 – 6	–	–	1	–	1	9341.510
45	32 A	690 V~	1.5 – 6	–	45 x 195	1	–	1	9341.530
45	32 A	690 V~	1.5 – 6	–	45 x 195	1	■	1	9341.550
55	32 A	690 V~	1.5 – 6	–	55 x 195	1	–	1	9341.660
55	65 A	690 V~	2.5 – 16	–	–	1	–	1	9341.610
55	65 A	690 V~	2.5 – 16	–	55 x 195	1	–	1	9341.630
55	65 A	690 V~	2.5 – 16	–	55 x 237	2 ³⁾	–	1	9341.650
With connection cables									
45	25 A	690 V~	–	AWG 12	–	1	–	1	9341.310
45	25 A	690 V~	–	AWG 12	45 x 195	1	–	1	9341.340
45	25 A	690 V~	–	AWG 12	45 x 195	1	■	1	9341.370
55	32 A	690 V~	–	AWG 10	55 x 195	1	–	1	9341.460
55	65 A	690 V~	–	AWG 6	–	1	–	1	9341.410
55	65 A	690 V~	–	AWG 6	55 x 195	1	–	1	9341.430
55	65 A	690 V~	–	AWG 6	55 x 237	2 ³⁾	–	1	9341.450

¹⁾ AWG = American Wire Gauges

AWG 12 = 3.31 mm² ± 4 mm²

AWG 10 = 5.26 mm² ± 6 mm²

AWG 6 = 13.3 mm² ± 16 mm²

²⁾ OT Premium adaptor connector outlet. Sub-unit with connection facilities for 3 main contacts (1.5 – 4 mm²) and 8 auxiliary contacts (0.5 – 2.5 mm²) including connectors.

³⁾ The lower support rail with special latch is attached from the rear with the support frame loosened.

Note:

Overview of switchgear with appropriate adaptor, see RiLine60 brochure, page 56/57.

Mounting of OT adaptors only in conjunction with base tray and base tray infill, see RiLine60 brochure, page 9/11.



Rittal RiLine60

OM supports and OT supports (without contact system)

Construction width mm	With support frame mm	With support frame supports	Number of support rails (height 10 mm) ¹⁾	With PinBlock	Packs of	Model No. SV
OM supports						
45	45 x 170	–	–	■	1	9340.260
55	55 x 237	■	1	–	1	9340.270
OT supports						
45	45 x 195	–	–	■	1	9341.260
55	55 x 237	–	1	–	1	9341.270

¹⁾ The support rail with special latch is attached from the rear with the support frame loosened.

Note:

Mounting of OT adaptors only in conjunction with base tray and base tray infill, see RiLine60 brochure, page 9/11.



Rittal RiLine60

Component adaptor

Construction width mm	Rated current up to	Rated operating voltage	Connection clamp	Connection of round conductors mm ²	Clamping area for laminated copper bars mm	Cable outlet ¹⁾	Packs of	Model No. SV
72	100 A	690 V~	Box terminal	10 – 35	10 x 7.8	top	1	9342.400
						bottom	1	9342.410

¹⁾ Switch outlet or outgoing cable.

Note:

Overview of switchgear with appropriate adaptor, see RiLine60 brochure, page 28.



Rittal RiLine60

Circuit-breaker component adaptor

Construction width mm	Rated current up to	Rated operating voltage	Connection clamp	Connection of round conductors mm ²	Clamping area for laminated copper bars mm	Cable outlet ¹⁾	Packs of	Model No. SV
90	160 A	690 V~	box terminal	35 – 120	18.5 x 15.5	top	1	9342.500
						bottom	1	9342.510
105	250 A	690 V~	box terminal	35 – 120	18.5 x 15.5	top	1	9342.600
						bottom	1	9342.610
140	630 A ²⁾	690 V~	screw terminal M10	max. 150	32 x 10	top	1	9342.700
						bottom	1	9342.710

¹⁾ Switch outlet or outgoing cable.

²⁾ Derating may be necessary, depending on application.

Note:

Overview of switchgear with appropriate adaptor, see RiLine60 brochure, page 28/29.



Rittal RiLine60

Multi-functional component adaptor

see page 37.



Rittal RiLine60

Bus-mounting fuse bases

see page 39.

Note:

When using busbar systems with base tray, please order end caps with order extension .010.



Rittal RiLine60

NH bus-mounting on-load isolator/NH fused isolator

see page 39.



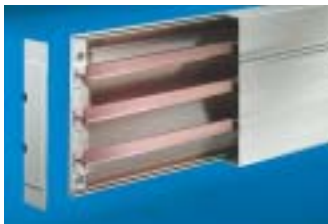
2.2 Busbar systems up to 800 A (60 mm)

System components

Description	Number of poles	Bar centre distance mm	For busbars mm	Packs of	Model No. SV	Cat. 31 page
Busbar supports up to 800 A, 1000 V~	3-pole	60	12 x 5 – 30 x 10 ¹⁾	4	3000.000²⁾	318
	2-pole	60	12 x 5 – 30 x 10 ¹⁾	4	3050.000	318
	1-pole	–	12 x 5 – 30 x 10 ¹⁾	4	3078.000	318
	4-pole	60	12 x 5 – 30 x 10 ¹⁾	3	3064.000	318
Busbar supports up to 450 A, 1000 V~	3-pole	60	30 x 5	4	3066.000	318
Inserts for SV 3000.000 SV 3050.000 SV 3064.000 SV 3078.000	–	–	12 x 5	12	3009.000	319
	–	–	12 x 10	24	3008.000	319
	–	–	15 x 5	12	3007.000	319
	–	–	20 x 5	12	3004.000	319
	–	–	20 x 10	24	3003.000	319
	–	–	25 x 5	12	3002.000	319
	–	–	30 x 5	12	3001.000	319
End covers for SV 3000.000				10	3080.000²⁾	319
End covers for SV 3064.000				10	3084.000	319
Support cover for SV 3000.000				4	3089.000²⁾	319
Busbars E-Cu						319
Busbar cover section						319

¹⁾ Max. busbar accommodation without inserts 30 x 10 mm.

²⁾ To be discontinued.



2.2 Busbar systems up to 800 A/1600 A (60 mm)

Rittal PLS

Description	Rated current up to	For PLS bar cross-section (bar thickness)	Packs of	Model No. SV	Cat. 31 page
PLS busbar support, 3-pole, 60 mm bar centre distance, rated operating voltage 1000 V~	800 A	300 mm ² (5 mm)	4	3500.000¹⁾²⁾	320
	1600 A	900 mm ² (10 mm)	4	3510.000¹⁾²⁾	320

Description	Length mm	For enclosure width mm	Packs of	Model No. SV		Cat. 31 page
				for PLS 800 A	for PLS 1600 A	
PLS end covers	–	–	2	3501.000¹⁾	3511.000¹⁾²⁾	320
PLS special busbars E-Cu ³⁾	2400	variable	1	3509.000	3516.000¹⁾	320
	495	600	3	3524.000¹⁾	3527.000¹⁾	320
	695	800	3	3525.000¹⁾	3528.000¹⁾	320
	895	1000	3	3525.010	3528.010	–
	1095	1200	3	3526.000¹⁾	3529.000¹⁾	320
PLS base tray sections	500	–	2	3502.000¹⁾²⁾	3512.000¹⁾²⁾	321
	700	–	1	3503.000¹⁾²⁾	3513.000¹⁾²⁾	321
	1100	–	1	3518.000¹⁾²⁾	3519.000¹⁾²⁾	321
PLS cover sections	250	–	2	3506.000¹⁾²⁾	3506.000¹⁾²⁾	321
	500	–	2	3507.000¹⁾²⁾	3507.000¹⁾²⁾	321
	700	–	1	3508.000¹⁾²⁾	3508.000¹⁾²⁾	321

¹⁾ GOST R (see page 98).

²⁾ To be discontinued.

³⁾ Bar cross-section (bar thickness)

PLS 800 A: 300 mm² (5 mm)

PLS 1600 A: 900 mm² (10 mm)



Connection adaptor

Rated current up to	Rated operating voltage	Connection	Connection of round conductors up to mm ²	Clamping area for laminated copper bars mm	Packs of	Model No. SV	Cat. 31 page
63 A	690 V~	bottom	10/2 x 6	–	1	3443.000¹⁾²⁾	322
125 A	690 V~	bottom	35	11 x 14	1	3444.000¹⁾²⁾	322
250 A	690 V~	bottom	70	16 x 15	1	3442.000¹⁾²⁾	322
400 A	690 V~	bottom	150	–	1	3440.000¹⁾²⁾	322
600 A	690 V~	top/bottom	35 to 240	24 x 21	1 set	3439.010¹⁾	323
800 A	690 V~	bottom	185	30 x 25	1	3441.000¹⁾²⁾	322
800 A	690 V~	top/bottom	–	34 x 21 (16)	1 set	3439.000¹⁾	323
1600 A	690 V~	top/bottom	–	65 x 21	1 set	3517.000¹⁾³⁾	323

¹⁾ GOST R (see page 98).

²⁾ To be discontinued.

³⁾ Only suitable for Rittal PLS 1600 A.



2.2 Busbar systems up to 800 A/1600 A (60 mm)

Connection clamps/system covers

Description	Cat. 31 page
Conductor connection clamps	324
Plate clamp	324
System covers	324



Multi-functional component adaptor

Construction width mm	Rated current up to	Rated operating voltage	Connection cables ²⁾	Connection of round conductors up to	Cable outlet	Support rails		For bar thickness mm	Packs of	Model No. SV	Cat. 31 page
						Height mm	Number				
45	12 A	690 V~	AWG 14	—	top	10	1	5	1	9320.160 ¹⁾	325
45	12 A	690 V~	AWG 14	—	top	10	1	10	1	9320.170 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	1	5	1	9320.180 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	1	10	1	9320.190 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	2	5	1	9320.200 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	2	10	1	9320.210 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	2	5	1	9320.440 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	2	10	1	9320.450 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	2 ² (1 var.)	5	1	9320.220 ¹⁾	325
45	25 A	690 V~	AWG 12	—	top	10	2 ² (1 var.)	10	1	9320.230 ¹⁾	325
45	25 A	690 V~	AWG 12	—	bottom	10	2	5	1	9320.240 ¹⁾	325
45	25 A	690 V~	AWG 12	—	bottom	10	2	10	1	9320.250 ¹⁾	325
90	25 A	690 V~	AWG 12	—	top	10	2	5	1	9320.380 ¹⁾	326
90	25 A	690 V~	AWG 12	—	top	10	2	10	1	9320.390 ¹⁾	326
99	25 A	690 V~	AWG 12	—	top	10	2	5	1	9320.400 ¹⁾	326
99	25 A	690 V~	AWG 12	—	top	10	2	10	1	9320.410 ¹⁾	326
108	25 A	690 V~	AWG 12	—	top	10	2	5	1	9320.420 ¹⁾	326
108	25 A	690 V~	AWG 12	—	top	10	2	10	1	9320.430 ¹⁾	326
45	25 A	690 V~	—	16 mm ²	top	10	2 ² (1 var.)	5	1	9320.260 ¹⁾	326
45	25 A	690 V~	—	16 mm ²	top	10	2 ² (1 var.)	10	1	9320.270 ¹⁾	326
45	25 A	690 V~	—	16 mm ²	top/ bottom	10	2	5	1	9320.280 ¹⁾	326
45	25 A	690 V~	—	16 mm ²	top/ bottom	10	2	10	1	9320.290 ¹⁾	326
54	40 A	690 V~	AWG 10	—	top	10	2	5	1	9320.300 ¹⁾	327
54	40 A	690 V~	AWG 10	—	top	10	2	10	1	9320.310 ¹⁾	327
54	40 A	690 V~	AWG 10	—	top	15	1	5	1	9320.460 ¹⁾	327
54	40 A	690 V~	AWG 10	—	top	15	1	10	1	9320.470 ¹⁾	327
54	40 A	690 V~	AWG 10	—	bottom	10	2	5	1	9320.320 ¹⁾	327
54	40 A	690 V~	AWG 10	—	bottom	10	2	10	1	9320.330 ¹⁾	327
54	40 A	690 V~	—	16 mm ²	top	10	2	5	1	9320.340 ¹⁾	327
54	40 A	690 V~	—	16 mm ²	top	10	2	10	1	9320.350 ¹⁾	327
54	40 A	690 V~	—	16 mm ²	top/ bottom	10	2	5	1	9320.360 ¹⁾	327
54	40 A	690 V~	—	16 mm ²	top/ bottom	10	2	10	1	9320.370 ¹⁾	327

¹⁾ GOST R (see page 98).

²⁾ AWG = American Wire Gauges
 AWG 14 = 2.08 mm² ± 2.5 mm²
 AWG 12 = 3.31 mm² ± 4 mm²
 AWG 10 = 5.26 mm² ± 6 mm²

Note:

For allocation of "power circuit-breakers/starter combinations", see Cat. 31, page 1130/1131.



2.2 Busbar systems up to 800 A/1600 A (60 mm)

Component adaptor Cable outlet at the top

Construction width mm	Rated current up to	Rated operating voltage	Connection cables ²⁾	Connection of round conductors mm ²	Support rails		For bar thickness mm	Packs of	Model No. SV ³⁾	Cat. 31 page
					Height mm	Number				
54	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	1	5	1	3540.000 ¹⁾	328
54	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	1	10	1	3541.000 ¹⁾	328
54	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	2	5	1	3040.000 ¹⁾	328
54	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	2	10	1	3041.000 ¹⁾	328
72	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	1	5	1	3544.000 ¹⁾	328
72	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	1	10	1	3545.000 ¹⁾	328
108	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	2	5	1	3042.000 ¹⁾	329
108	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	2	10	1	3043.000 ¹⁾	329
126	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	2	5	1	3069.000 ¹⁾	329
126	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	7.5	2	10	1	3070.000 ¹⁾	329
144	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	15	2	5	1	3044.000 ¹⁾	329
144	50 A	690 V~	AWG 10 (32 A)	1.5 – 10	15	2	10	1	3045.000 ¹⁾	329
54	63 A	690 V~	AWG 8	1.5 – 10	7.5	1	5	1	3036.000 ¹⁾	330
54	63 A	690 V~	AWG 8	1.5 – 10	7.5	1	10	1	3037.000 ¹⁾	330
72	63 A	690 V~	AWG 8	1.5 – 10	7.5	2	5	1	3038.000 ¹⁾	330
72	63 A	690 V~	AWG 8	1.5 – 10	7.5	2	10	1	3039.000 ¹⁾	330
72	63 A	690 V~	AWG 8	1.5 – 10	15	1	5	1	3067.000 ¹⁾	330
72	63 A	690 V~	AWG 8	1.5 – 10	15	1	10	1	3068.000 ¹⁾	330
72	63 A	690 V~	AWG 8	1.5 – 10	15	2	5	1	3046.000 ¹⁾	330
72	63 A	690 V~	AWG 8	1.5 – 10	15	2	10	1	3047.000 ¹⁾	330
144	63 A	690 V~	AWG 8	1.5 – 10	15	2	5	1	3048.000 ¹⁾	330
144	63 A	690 V~	AWG 8	1.5 – 10	15	2	10	1	3049.000 ¹⁾	330
54	63 A	690 V~	AWG 10	1.5 – 10	7.5	1	5 – 10	1	3445.000 ¹⁾	331
54	63 A	400 V~	–	1.5 – 16	7.5	1	5 – 10	1	3446.000 ¹⁾⁴⁾	331
90	100 A	690 V~	35 mm ²	–	mounting plate		5	1	9320.000 ¹⁾	332
90	100 A	690 V~	35 mm ²	–	mounting plate		10	1	9320.010 ¹⁾	332
110	160 A	690 V~	–	6 – 70	mounting plate		5 – 10	1	3438.000 ¹⁾	332
110	160 A	690 V~	–	6 – 70	mounting plate		5 – 10	1	3539.000 ¹⁾	332
110	250 A	690 V~	–	50 – 120	–		5 – 10	1	3437.000 ¹⁾	333
110	250 A	690 V~	–	50 – 120	–		5 – 10	1	3437.010 ¹⁾	333

¹⁾ GOST R (see page 98).

²⁾ AWG = American Wire Gauges

AWG 10 = 5.26 mm² ± 6 mm²

AWG 8 = 8.37 mm² ± 10 mm²

³⁾ To be discontinued.

⁴⁾ With pre-fuse unit D 02-E 18.

Note:

For allocation of "power circuit-breakers/starter combinations", see Cat. 31, page 1131.

Component support (without contact system)

Construction width mm	Support rails		For bar thickness mm	Packs of	Model No. SV ¹⁾	Cat. 31 page
	Height mm	Number				
54	7.5	1	5	1	3542.000	333
54	7.5	1	10	1	3543.000	333
72	7.5	1	5	1	3546.000	333
72	7.5	1	10	1	3547.000	333

¹⁾ To be discontinued.



2.2 Busbar systems up to 800 A/1600 A (60 mm)

Bus-mounting fuse bases

Type	Rated current	Rated operating voltage	For bar thickness mm	Packs of	Model No. SV				Cat. 31 page
					Bus-mounting fuse base	Contact hazard protection cover	End caps	Side cover	
For clamping screw attachment									
D 02-E 18 ²⁾	63 A	400 V~	5 – 10	10	3418.000 ¹⁾	3419.000 ¹⁾	3420.000 ¹⁾	3093.000	334
D II-E 27 ³⁾	25 A	500 V~	5 – 10	10	3427.000 ¹⁾	3428.000 ¹⁾	3429.000 ¹⁾	3093.000	334
D III-E 33 ³⁾	63 A	690 V~	5 – 10	10	3433.000 ¹⁾	3434.000 ¹⁾	3435.000 ¹⁾	3093.000	334
For snap-on mounting									
D 02-E 18 ²⁾	63 A	400 V~	5	10	3422.000 ²⁾	3424.000 ²⁾	3425.000 ²⁾	3093.000	335
D 02-E 18 ²⁾	63 A	400 V~	10	10	3423.000 ²⁾	3424.000 ¹⁾²⁾	3425.000 ¹⁾²⁾	3093.000	335
D II-E 27 ⁴⁾	25 A	500 V~	5	10	3520.000 ¹⁾	3522.000 ¹⁾⁵⁾	3429.000	3093.000	335
D II-E 27 ⁴⁾	25 A	500 V~	10	10	3521.000 ¹⁾	3522.000 ⁵⁾	3429.000	3093.000	335
D III-E 33 ⁴⁾	63 A	690 V~	5	10	3530.000 ¹⁾	3532.000 ¹⁾⁵⁾	3435.000	3093.000	335
D III-E 33 ⁴⁾	63 A	690 V~	10	10	3531.000 ¹⁾	3532.000 ¹⁾⁵⁾	3435.000	3093.000	335

¹⁾ GOST R (see page 98).

²⁾ Adaptor sleeve.

³⁾ Adaptor screw.

⁴⁾ Gauge ring.

⁵⁾ Discontinued: SV 3522.000 is replaced by SV 3428.000 and SV 3532.000 is replaced by SV 3434.000.



NH fused isolators/NH on-load isolators

Description	Cable outlet	Type of connection	For bar thickness mm	Packs of	Model No. SV	Cat. 31 page
NH fused isolators size 00 160 A, 690 V~	top	Screw M8	5 – 10	1	3591.020 ¹⁾	336
	bottom	Screw M8	5 – 10	1	3591.030 ¹⁾	336
NH on-load isolators size 000 100 A, 690 V~	top/bottom	Terminal up to 50 mm ²	–	1	3431.000 ¹⁾	337
Busbar adaptor for SV 3431.000	–	–	5	1	9320.040 ¹⁾	337
	–	–	10	1	9320.050 ¹⁾	337

¹⁾ GOST R (see page 98).



NH bus-mounting on-load isolator

Version	Cable outlet	Type of connection	Packs of	Model No. SV	With fuse monitoring		Cat. 31 page
					Model No. SV ²⁾	Model No. SV ³⁾	
Size 00, 160 A, 690 V~	top	Screw M8 up to 95 mm ²	1	3400.000 ¹⁾	3490.000 ¹⁾	3490.210 ¹⁾	338
Size 00, 160 A, 690 V~	bottom	Screw M8 up to 95 mm ²	1	3401.000 ¹⁾	3491.000 ¹⁾	3491.210 ¹⁾	338
Size 00, 160 A, 690 V~	top	Clamp-type terminal connection up to 70 mm ²	1	3402.000 ¹⁾	3492.000 ¹⁾	3492.210 ¹⁾	338
Size 00, 160 A, 690 V~	bottom	Clamp-type terminal connection up to 70 mm ²	1	3403.000 ¹⁾	3493.000 ¹⁾	3493.210 ¹⁾	338
Size 1, 250 A, 690 V~	top	Screw M10 up to 150 mm ²	1	3411.000 ¹⁾	3495.000 ¹⁾	3495.210 ¹⁾	339
Size 1, 250 A, 690 V~	bottom	Screw M10 up to 150 mm ²	1	3410.000 ¹⁾	3494.000 ¹⁾	3494.210 ¹⁾	339
Size 2, 400 A, 690 V~	top	Screw M10 up to 240 mm ²	1	3415.020 ¹⁾	3415.120 ¹⁾	3415.210 ¹⁾	340
Size 2, 400 A, 690 V~	bottom	Screw M10 up to 240 mm ²	1	3415.030 ¹⁾	3415.130 ¹⁾	3415.230 ¹⁾	340
Size 3, 630 A, 690 V~	top	Screw M10 up to 240 mm ²	1	3095.020 ¹⁾	3095.120 ¹⁾	3095.210 ¹⁾	341
Size 3, 630 A, 690 V~	bottom	Screw M10 up to 240 mm ²	1	3095.030 ¹⁾	3095.130 ¹⁾	3095.230 ¹⁾	341

¹⁾ GOST R (see page 98).

²⁾ Electromechanical fuse monitoring.

³⁾ Electronic fuse monitoring and LED display.



2.3 Busbar systems up to 1250 A (100 mm)

System components

Description	For busbars mm	Packs of	Model No. SV	Cat. 31 page
Busbar supports up to 1250 A, 1000 V~, 3-pole, 100 mm bar centre distance	–	4	3073.000	343
Inserts for SV 3073.000	30 x 10	24	3074.000	343
	40 x 10	24	3075.000	343
	50 x 10	24	3076.000	343
End cover	–	10	3083.000	343
Busbars E-Cu				343
Busbar cover sections				343



Connection clamps/system covers

Description	Cat. 31 page
Plate clamps	344
Conductor connection clamps	344
System covers	344



NH bus-mounting on-load isolator

Version	Cable outlet	Type of connection	Packs of	Model No. SV	With fuse monitoring		Cat. 31 page
					Model No. SV ²⁾	Model No. SV ³⁾	
Size 00, 160 A, 690 V~	top	Screw M8 up to 95 mm ²	1	3400.000¹⁾	3490.000¹⁾	3490.210¹⁾	345
Size 00, 160 A, 690 V~	bottom	Screw M8 up to 95 mm ²	1	3401.000¹⁾	3491.000¹⁾	3491.210¹⁾	345
Size 00, 160 A, 690 V~	top	Clamp-type terminal connection up to 70 mm ²	1	3402.000¹⁾	3492.000¹⁾	3492.210¹⁾	345
Size 00, 160 A, 690 V~	bottom	Clamp-type terminal connection up to 70 mm ²	1	3403.000¹⁾	3493.000¹⁾	3493.210¹⁾	345
Size 1, 250 A, 690 V~	top	Screw M10 up to 150 mm ²	1	3411.000¹⁾	3495.000	3495.210	346
Size 1, 250 A, 690 V~	bottom	Screw M10 up to 150 mm ²	1	3410.000¹⁾	3494.000	3494.210	346
Size 2, 400 A, 690 V~	top/bottom	Screw M10 up to 240 mm ²	1	3415.010¹⁾	3415.110¹⁾	3415.310¹⁾	347
Size 3, 630 A, 690 V~	top/bottom	Screw M10 up to 240 mm ²	1	3095.010¹⁾	3095.110¹⁾	3095.310¹⁾	348
Busbar adaptor for NH isolator		Size 00, Size 1	1		3412.000¹⁾		345
		Size 2	1		3499.020¹⁾		347
		Size 3	1		3499.030¹⁾		348

¹⁾ GOST R (see page 98).

²⁾ Electromechanical fuse monitoring.

³⁾ Electronic fuse monitoring and LED display.

NH fused isolator

Version	Cable outlet	Type of connection	Packs of	Model No. SV	Cat. 31 page
Size 00, 160 A, 690 V~	top/bottom	Screw M8	1	3591.010¹⁾	349

¹⁾ GOST R (see page 98).



2.4 Busbar systems up to 1600 A (185 mm)

System components

Description	For busbars mm	Packs of	Model No. SV	Cat. 31 page
Busbar supports up to 1600 A, 1000 V~, 3-pole, 185 mm bar centre distance	50 – 80 x 10 ¹⁾	2	3052.000	351
Inserts for SV 3052.000	50 x 10	24	3074.000	351
	60 x 10	24	3075.000	351
Busbars E-Cu				351
Busbar cover sections				351

¹⁾ Max. busbar accommodation without inserts 80 x 10 mm.

The base component of the busbar support may also be used as a one-pole support.



2.4 Busbar systems up to 1600 A (185 mm)

Connection clamps

Description	Cat. 31 page
Plate clamps	352
Conductor connection clamps	352



NH fused isolators

Version	Cable outlet	Type of connection	Packs of	Model No. SV	Cat. 31 page
Size 00, 160 A, 690 V~	top/bottom	Screw M8	1	3591.040¹⁾²⁾	353
			2	3591.050¹⁾³⁾	353
Size 1, 250 A, 690 V~	top/bottom	Screw M12	1	3485.000¹⁾	353
Size 2, 400 A, 690 V~	top/bottom	Screw M12	1	3486.000¹⁾	353
Size 3, 630 A, 690 V~	top/bottom	Screw M12	1	3487.000¹⁾	353

¹⁾ GOST R (see page 98).

²⁾ Including busbar adaptor.

³⁾ Including busbar adaptor (double adaptor).



2.5 Busbar systems up to 2500 A/3000 A (150 mm)

System components

Description	Rated current up to	Max. bar accommodation without spacing pieces	Packs of	Model No. SV	Cat. 31 page
Busbar support, 3-pole, 150 mm bar centre distance, rated operating voltage 1000 V~	2500 A	2 x 80 x 10 mm	2	3055.000	355
	3000 A	2 x 100 x 10 mm	2	3057.000	355
Spacing pieces			12	3056.000	355
Busbars E-Cu					355
Connection plates					356
Bar insulation					356



2.6 Mounting plate assembly

NH on-load isolators

Version	Cable outlet	Type of connection	Packs of	Model No. SV	With fuse monitoring		Cat. 31 page
					Model No. SV ²⁾	Model No. SV ³⁾	
Size 000, 100 A, 690 V~	top/bottom	Terminal up to 50 mm ²	1	3431.000¹⁾	—	—	358
Size 00, 160 A, 690 V~	top/bottom	Screw M8 up to 95 mm ²	1	3488.000¹⁾	—	—	358
Size 00, 160 A, 690 V~	bottom	Screw M8 up to 95 mm ²	1	—	—	3488.310¹⁾	358
Size 00, 160 A, 690 V~	top/bottom	Clamp-type terminal up to 70 mm ²	1	3489.000¹⁾	—	—	358
Size 00, 160 A, 690 V~	bottom	Clamp-type terminal up to 70 mm ²	1	—	—	3489.310¹⁾	358
Size 1, 250 A, 690 V~	top/bottom	Screw M10 up to 150 mm ²	1	3409.000¹⁾	—	—	358
Size 1, 250 A, 690 V~	bottom	Screw M10 up to 150 mm ²	1	—	—	3409.310¹⁾	358
Size 2, 400 A, 690 V~	top/bottom	Screw M10 up to 240 mm ²	1	3415.010¹⁾	—	—	359
Size 2, 400 A, 690 V~	top/bottom	Screw M10 up to 240 mm ²	1	—	3415.110¹⁾	—	359
Size 2, 400 A, 690 V~	bottom	Screw M10 up to 240 mm ²	1	—	—	3415.310¹⁾	359
Size 3, 630 A, 690 V~	top/bottom	Screw M10 up to 240 mm ²	1	3095.010¹⁾	—	—	359
Size 3, 630 A, 690 V~	top/bottom	Screw M10 up to 240 mm ²	1	—	3095.110¹⁾	—	359
Size 3, 630 A, 690 V~	bottom	Screw M10 up to 240 mm ²	1	—	—	3095.310¹⁾	359

¹⁾ GOST R (see page 98).

²⁾ Electromechanical fuse monitoring.

³⁾ Electronic fuse monitoring and LED display.



2.8 Rittal Maxi-PLS up to 2000 A/3200 A

Description	Up to 2000 A Cat. 31, page	Up to 3200 A Cat. 31, page
Connection kits (3-pole)	368 – 369	378 – 381
Connection kits for coupling sets (3-pole)	370 – 371	382 – 383
Connection kits for rear section (3-pole)	372 – 373	384 – 387
Connection kits for coupling sets – rear section (3-pole)	374 – 375	388 – 389
PE/PEN combination, see Innovations 2005, page 42		
System components		
Busbar support	376	390
Busbar support, suitable for top mounting	376	390
End supports	376	390
System attachment	376	390
Maxi-PLS busbars, E-Cu ¹⁾	376	390
Cover section	376	390
Longitudinal connector E-Cu	376	390
End cover	376	390
Stabiliser	–	390
Connection components		
Connection bracket E-Cu	377	391
Isolator chassis	377	391
U contact maker E-Cu	377	391
Connection clamp	377	391
Connection plates	377	391
Terminal studs	377	391
Sliding blocks	377	391
Sliding nuts	377	391
Threaded bolts	377	391

¹⁾ Maxi-PLS busbars E-Cu 1600 A, see Innovations 2005, page 42.



2.8 Rittal Maxi-PLS SV-TS 8 enclosures for incoming/outgoing

Dimensions mm			Model No. SV		Model No. TS					Cat. 31 page
Width	Height	Depth	For Maxi-PLS	Enclosure	Side panels Packs of 2	Base/plinth Packs of 1 set				
						Components front and rear		Trim panels sides		
						100 mm	200 mm	100 mm	200 mm	
3-pole										
600	2000	600	2000 A	9660.665 ¹⁾²⁾	8106.235	8601.600	8602.600	8601.060	8602.060	392
600	2000	600	2000 A	9660.675 ¹⁾³⁾	8106.512	8601.600	8602.600	8601.060	8602.060	392
800	2000	600	3200 A	9660.865 ¹⁾²⁾	8106.235	8601.800	8602.800	8601.060	8602.060	392
800	2000	600	3200 A	9660.875 ¹⁾³⁾	8106.512	8601.800	8602.800	8601.060	8602.060	392
4-pole										
800	2000	600	2000 A	9649.625 ¹⁾²⁾	8106.235	8601.800	8602.800	8601.060	8602.060	393
800	2000	600	2000 A	9649.635 ¹⁾³⁾	8106.512	8601.800	8602.800	8601.060	8602.060	393
800	2000	800	3200 A	9659.625 ¹⁾²⁾	8108.235	8601.800	8602.800	8601.080	8602.080	393
800	2000	800	3200 A	9659.635 ¹⁾³⁾	8108.512	8601.800	8602.800	8601.080	8602.080	393

¹⁾ GOST R (see page 98).

²⁾ 1-door.

³⁾ 3-door.



2.8 Rittal Maxi-PLS SV-TS 8 enclosures for Rittal NH fused isolators

Dimensions mm			Model No. SV	Model No. TS					Cat. 31 page
Width	Height	Depth	Enclosure ²⁾	Side panels Packs of 2	Base/plinth Packs of 1 set				
					Components front and rear		Trim panels sides		
					100 mm	200 mm	100 mm	200 mm	
3-pole/4-pole (2000 A/3000 A)									
600	2000	500	9660.505 ¹⁾³⁾	8105.235	8601.600	8602.600	8601.050	8602.050	394
600	2000	600	9660.605 ¹⁾³⁾	8106.235	8601.600	8602.600	8601.060	8602.060	394
600	2000	800	9660.805 ¹⁾³⁾	8108.235	8601.600	8602.600	8601.080	8602.080	394
800	2000	500	9660.535 ¹⁾³⁾	8105.235	8601.800	8602.800	8601.050	8602.050	394
800	2000	600	9660.635 ¹⁾³⁾	8106.235	8601.800	8602.800	8601.060	8602.060	394
800	2000	800	9660.835 ¹⁾³⁾	8108.235	8601.800	8602.800	8601.080	8602.080	394
1000	2000	500	9660.595 ¹⁾⁴⁾	8105.235	8601.000	8602.000	8601.050	8602.050	395
1000	2000	600	9660.695 ¹⁾⁴⁾	8106.235	8601.000	8602.000	8601.060	8602.060	395
1200	2000	500	9660.555 ¹⁾⁴⁾	8105.235	8601.200	8602.200	8601.050	8602.050	395
1200	2000	600	9660.655 ¹⁾⁴⁾	8106.235	8601.200	8602.200	8601.060	8602.060	395
1200	2000	800	9660.855 ¹⁾⁴⁾	8108.235	8601.200	8602.200	8601.080	8602.080	395

¹⁾ GOST R (see page 98).

²⁾ Without mounting plate.

³⁾ 1-door.

⁴⁾ 2-door.



for NH fused isolators

Dimensions mm			Model No. SV	Model No. TS					Cat. 31 page
Width	Height	Depth	Enclosure 1-door	Side panels Packs of 2	Base/plinth Packs of 1 set				
					Components front and rear		Trim panels sides		
					100 mm	200 mm	100 mm	200 mm	
3-pole (2000 A/3000 A)									
1000	2000	600	9660.515 ¹⁾²⁾	8106.512	8601.000	8602.000	8601.060	8602.060	396
1200	2000	600	9660.545 ¹⁾²⁾	8106.512	8601.200	8602.200	8601.060	8602.060	396
1000	2000	600	9660.415 ¹⁾³⁾	8106.512	8601.000	8602.000	8601.060	8602.060	396
1200	2000	600	9660.445 ¹⁾³⁾	8106.512	8601.200	8602.200	8601.060	8602.060	396
4-pole (2000 A)									
1000	2000	600	9649.665 ¹⁾²⁾	8106.512	8601.000	8602.000	8601.060	8602.060	397
1200	2000	600	9649.675 ¹⁾²⁾	8106.512	8601.200	8602.200	8601.060	8602.060	397
1000	2000	600	9649.645 ¹⁾³⁾	8106.512	8601.000	8602.000	8601.060	8602.060	397
1200	2000	600	9649.655 ¹⁾³⁾	8106.512	8601.200	8602.200	8601.060	8602.060	397
4-pole (3200 A)									
1000	2000	800	9659.665 ¹⁾²⁾	8108.512	8601.000	8602.000	8601.080	8602.080	397
1200	2000	800	9659.675 ¹⁾²⁾	8108.512	8601.200	8602.200	8601.080	8602.080	397
1000	2000	800	9659.645 ¹⁾³⁾	8108.512	8601.000	8602.000	8601.080	8602.080	397
1200	2000	800	9659.655 ¹⁾³⁾	8108.512	8601.200	8602.200	8601.080	8602.080	397

¹⁾ GOST R (see page 98).

²⁾ For NH fused isolators, brand ABB SlimLine.

³⁾ For NH fused isolators, brand Jean Müller SASIL.



System components for NH fused isolator panels

for NH fused isolator brands ABB SlimLine/Jean Müller SASIL

Description	Cat. 31 page
T-bar support 800 A/1600 A	398
T-busbars E-Cu 800 A/1600 A	398
T-connector kits 800 A/1600 A	398



2.8 Rittal Maxi-PLS SV-TS 8 enclosures for coupling sets

Dimensions mm			Model No. SV		Model No. TS					Cat. 31 page
Width	Height	Depth	For Maxi-PLS	Enclosure	Side panels Packs of 2	Base/plinth Packs of 1 set				
						Components front and rear		Trim panels sides		
						100 mm	200 mm	100 mm	200 mm	
3-pole										
800	2000	600	2000 A	9660.305 ¹⁾	8106.512	8601.800	8602.800	8601.060	8602.060	399
1000	2000	600	3200 A	9660.355 ¹⁾	8106.512	8601.000	8602.000	8601.060	8602.060	399
4-pole										
1000	2000	600	2000 A	9649.685 ¹⁾	8106.512	8601.000	8602.000	8601.060	8602.060	399
1000	2000	800	3200 A	9659.695 ¹⁾	8108.512	8601.000	8602.000	8601.080	8602.080	399

¹⁾ GOST R (see page 98).

System components for coupling sets

Description	Cat. 31 page
Coupling sets, vertical	400
System attachment for vertical coupling set	400



2.9 ISV distribution enclosure

ISV-TS 8 enclosures for distribution enclosures up to 630 A

Dimensions mm			Model No. SV	Model No. TS					Cat. 31 page
Width	Height	Depth	Enclosure	Side panels Packs of 2	Base/plinth Packs of 1 set				
					Components front and rear		Trim panels sides		
					100 mm	200 mm	100 mm	200 mm	
600	2000	400	9665.945 ¹⁾²⁾	8104.235	8601.600	8602.600	8601.040	8602.040	409
600	2000	600	9665.905 ¹⁾²⁾	8106.235	8601.600	8602.600	8601.060	8602.060	409
850	2000	400	9665.955 ¹⁾²⁾	8104.235	8601.850	8602.850	8601.040	8602.040	409
850	2000	600	9665.915 ¹⁾²⁾	8106.235	8601.850	8602.850	8601.060	8602.060	409
1100	2000	400	9665.965 ³⁾	8104.235	8601.300	8602.100	8601.040	8602.040	409
1100	2000	600	9665.925 ¹⁾³⁾	8106.235	8601.300	8602.100	8601.060	8602.060	409

¹⁾ GOST R (see page 98).

²⁾ 1-door.

³⁾ 2-door.



ISV-TS 8 enclosures for distribution enclosures up to 1600 A

Dimensions mm			Model No. SV	Model No. TS					Cat. 31 page
Width	Height	Depth	Enclosure	Side panels Packs of 2	Base/plinth Packs of 1 set				
					Components front and rear		Trim panels sides		
					100 mm	200 mm	100 mm	200 mm	
600	2000	600	9665.975 ¹⁾²⁾	8106.235	8601.600	8602.600	8601.060	8602.060	410
850	2000	600	9665.985 ¹⁾²⁾	8106.235	8601.850	8602.850	8601.060	8602.060	410

¹⁾ GOST R (see page 98).

²⁾ 1-door.





2.9 ISV distribution enclosure

Installation modules

Description	Cat. 31 page
Contact hazard protection modules	411
Mounting plate modules	411
Support rail modules	412
Support modules	412
Connection modules	413
DIN rail mounted device modules	413
NH on-load isolator modules	414
Power circuit-breaker modules	414
Busbar support	415
Contact hazard protection cover for conductor connection clamps and plate clamps	416/418
Contact hazard protection covers for bus-mounting fuse bases	416
Contact hazard protection covers for NH bus-mounting on-load isolator size 00	416
NH fused isolator modules	417
Contact hazard protection covers for NH fused isolator size 00	417
Busbar modules, 2-pole	418
Meter mounting board module	418



ISV wall-mounted distributor

based on compact enclosures AE

Dimensions mm			Model No. SV	Innovations 2005 page
Width	Height	Depth		
Single-door				
380	600	210	9665.805	43
500	700	250	9665.815	43
600	760	210	9665.825	43
600	1000	250	9665.835	43
600	1200	300	9665.845	43
Double-door				
1000	1200	300	9665.855	43



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3.1 AdvancedTCA

AdvancedTCA Shelf VB-1 (Intel ShMC connectable from front)

U	Slots	Backplane	IPMI	Intel ShMC ¹⁾	Switch slots	PC	PEM ²⁾	PEM-Amp	RiCool-2	Model No. RP	Cat. 31 page
13	14	Dual Star	radial	2 x CMM	centre	2 x	2 x	90 A each	4 x 48 V-IPMI	3688.303	427
13	14	Dual Star	radial	2 x CMM	centre	2 x	4 x	50 A each	4 x 48 V-IPMI	On request	427
13	14	Full Mesh	radial	2 x CMM	1 + 2	2 x	2 x	90 A each	4 x 48 V-IPMI	3688.301	427
13	14	Full Mesh	radial	2 x CMM	1 + 2	2 x	4 x	50 A each	4 x 48 V-IPMI	3688.466	427

Fully assembled, wired and tested.

¹⁾ ShMC not included with the supply.

²⁾ PEM-IPMI included with the supply.

AdvancedTCA Shelf version VB-2 (Pigeon Point ShMC connectable from front)

U	Slots	Backplane	IPMI	Pigeon Point ShMC ¹⁾	Switch slots	PC	PEM ²⁾	PEM-Amp	RiCool-2	Model No. RP	Cat. 31 page
13	14	Dual Star	bussed	2 x CMM	centre	2 x	2 x	90 A each	4 x 48 V-IPMI	3688.304	427
13	14	Dual Star	bussed	2 x CMM	centre	2 x	4 x	50 A each	4 x 48 V-IPMI	3688.469	427
13	14	Full Mesh	bussed	2 x CMM	1 + 2	2 x	2 x	90 A each	4 x 48 V-IPMI	3688.302	427
13	14	Full Mesh	bussed	2 x CMM	1 + 2	2 x	4 x	50 A each	4 x 48 V-IPMI	3688.470	427

Fully assembled, wired and tested.

¹⁾ ShMC not included with the supply.

²⁾ PEM-IPMI included with the supply.

MicroTCA or individual systems available on request.



3.2 CompactPCI

Rackmount or backplane systems, Slim-Box

U	Depth mm	Installation space for		Model No. RP			Cat. 31 page
		Boards mm	Rear I/O boards mm	with CPCI backplane and power supply	with CPCI backplane without power supply	without backplane, with power supply	
1	300	160	80	9907.475	3689.177	9907.479	433
1	300	160	–	9907.471	–	–	433
2	300	160	80	9907.476	3689.178	9907.480	433
2	300	160	–	9907.472	–	–	433
3	300	160	80	9907.477	3689.179	9907.481	433
3	300	160	–	9907.473	–	–	433
4	300	160	80	9907.478	3689.180	9907.482	433
4	300	160	–	9907.474	–	–	433

Fully assembled, wired and tested.



Rackmount or CompactPCI systems, Ripac

Slots (version)	U	Depth mm	Wiring space depth mm	For PCB	Model No. RP	Cat. 31 page
					MPS system	
5	3	405	210	6 U x 160 mm	3687.717	434
7 horizontal	4	405	210	6 U x 160 mm	3687.718	434
8	4 (3 + 1)	405	210	3 U/6 U x 160 mm	3687.719	435
8	7 (6 + 1)	405	210	3 U/6 U x 160 mm	3687.720	435
8	7 (6 + 2 x 1/2)	405	210	6 U x 160 mm	3687.721	436
8 (with radial fan)	9 (6 + 2 x 1/2)	290.5	85.5	6 U x 160 mm	3687.723	437

Fully assembled, wired and tested.



3.2 CompactPCI

Backplanes 3.5 U

Slots	Design	Model No. RP		Cat. 31 page
		32-bit	64-bit	
2	SBE	–	3687.864	440
3	SBE	3687.865	3686.578	440
4	SBE	3687.863	3686.576	440
5	SBE	3687.862	3686.575	440
6	SBME	3687.861	3686.548	440
7	SBE	3687.860	3686.547	440
8	S	3687.859	3686.546	440

S = Stand alone
B = Beginning segment
M = Middle segment
E = Ending segment



3.2 CompactPCI Backplanes 6.5 U

Slots	Design	Model No. RP		Cat. 31 page
		32-bit	64-bit	
Backplanes ¹⁾				
2	SBE	–	3686.581	440
3	SBE	3687.871	3686.580	440
4	SBE	3687.870	3686.579	440
5	SBE	3687.869	3686.552	440
6	SBME	3687.868	3686.551	440
7	SBE	3687.867	3686.550	440
8	S	3687.866	3686.549	440
Backplanes for low profile bridge ²⁾				
3	SBE	–	3689.209	440
4	SE	–	3689.208	440
5	SE	–	3689.207	440
6	SBME	–	3689.206	440
7	SBE	–	3689.205	440

¹⁾ Cannot be used when rear connection of 80 mm boards is required.

²⁾ May be used when rear connection of 80 mm boards is required.

S = Stand alone
B = Beginning segment
M = Middle segment
E = Ending segment



Backplanes 7 U with H.110

Slots	Design	Model No. RP		Cat. 31 page
		H.110 connected to system slot	H.110 not connected to system slot	
3	S	3688.508¹⁾	–	441
4	SE	3688.507²⁾	–	441
5	SB	3687.875²⁾	3688.506²⁾	441
6	SBME	3687.874²⁾	3688.505²⁾	441
7	SBE	3687.873²⁾	3688.504²⁾	441
8	S	3687.877	9805.494	441

¹⁾ Extendible with low profile bridges.

²⁾ Extendible with bridges RP 3686.571.

S = Stand alone
B = Beginning segment
M = Middle segment
E = Ending segment



Backplanes 7 U, Switch Fabric to PICMG 2.16

Width	Number of slots	Description of slots	Model No. RP	Cat. 31 page
32 HP	8	1 fabric slot 6 node slots with CPCI and H.110 1 host slot	3689.188	442
32 HP	8	see RP 3689.188, but without H.110	3686.414	442
84 HP	16	1 fabric slot 6 node slots with CPCI and H.110 1 host slot 1 fabric slot 6 node slots with CPCI and H.110 1 host slot 3 slots for power supplies	3686.396	442
84 HP	16	see RP 3686.396, but without H.110	3689.186	442
84 HP	21	7 node slots with CPCI and H.110 1 host slot 1 node slot with H.110, without CPCI 1 fabric slot 7 node slots with CPCI and H.110 1 host slot 1 node slot with H.110, without CPCI 1 fabric slot 1 alarm slot	3686.397	442
84 HP	21	see RP 3686.397, but without H.110	3689.190	442
84 HP	21	see RP 3686.397, but without CPCI	3689.191	442



3.2 CompactPCI

Modular CPCI bridge

Description	Model No. RP	Cat. 31 page
64-bit CPCI bridge	3686.571	443



Modular low profile bridge

Design	Bits	Model No. RP	Cat. 31 page
left-right	32	3689.210	443
right-left	32	3689.211	443
left-right	64	9810.637	443
right-left	64	9812.625	443

Only suitable for use in conjunction with low profile backplanes.



Power supply backplane

Description	Model No. RP	Cat. 31 page
3.5 U, 16 HP		
Board for 2 x plug-in power supplies with Positronic connector, 47-pin	3688.603	444
ATX (12") cable harness	9810.337 ¹⁾	444
ATX (16") cable harness	3686.570 ¹⁾	444
ATX (20") cable harness	9810.338 ¹⁾	444
6.5 U, 8 HP²⁾		
Board for 1 x plug-in power supply with Positronic connector, 47-pin	3688.607	445
ATX (12") cable harness	9810.337 ¹⁾	445
ATX (16") cable harness	3686.570 ¹⁾	445
ATX (20") cable harness	9810.338 ¹⁾	445
6.5 U, 16 HP²⁾		
Board for 2 x plug-in power supplies with Positronic connector, 47-pin	3688.608	446
ATX (12") cable harness	9810.337 ¹⁾	446
ATX (16") cable harness	3686.570 ¹⁾	446
ATX (20") cable harness	9810.338 ¹⁾	446

¹⁾ GOST R (see page 98).

²⁾ Extended delivery times.



3.2 VME

Backplane systems, Slim-Box

U	Depth mm	Installation space for		Model No. RP		Cat. 31 page
		Boards mm	Rear I/O boards mm	with VME backplane and power supply	without backplane, with power supply	
1	300	160	80	—	9907.479	447
1	360	160	160	9907.467	—	447
1	300	160	—	9907.463	—	447
2	300	160	80	—	9907.480	447
2	360	160	160	9907.468	—	447
2	300	160	—	9907.464	—	447
3	300	160	80	—	9907.481	447
3	360	160	160	9907.469	—	447
3	300	160	—	9907.465	—	447
4	300	160	80	—	9907.482	447
4	360	160	160	9907.470	—	447
4	300	160	—	9907.466	—	447

Fully assembled, wired and tested.



3.2 VME/VME64x

Rackmount systems, Ripac

Slots (version)	U	For	Depth mm	Wiring space depth mm	For PCB	Model No. RP	Cat. 31 page
						MPS system	
5	3	VME	405	210	6 U x 160 mm	3687.698	448
5	3	VME64x	405	210	6 U x 160 mm	3687.699	448
7 horizontal	4	VME	405	210	6 U x 160 mm	3687.700	448
7 horizontal	4	VME64x	405	210	6 U x 160 mm	3687.696	448
12	4 (3 + 1)	VME	405	210	3 U x 160 mm	3687.702	449
12	7 (6 + 1)	VME	405	210	3/6 U x 160 mm	3687.703	449
12	7 (6 + 1)	VME64x	405	210	3/6 U x 160 mm	3687.704	449
12	7 (6 + 2 x 1/2)	VME	405	210	6 U x 160 mm	3687.705	450
12	7 (6 + 2 x 1/2)	VME64x	405	210	6 U x 160 mm	3687.706	450
12 (with radial fan)	9 (6 + 2 x 1/2)	VME64x	290.5	85.5	6 U x 160 mm	3687.708	451

Fully assembled, wired and tested.



3.2 VME

Backplanes VME64x

Slots	Dimensions in mm		Model No. RP		Cat. 31 page
	Width	Height	without P0 connector	with P0 connector	
6 U					
5	100	261.6	3687.608	3687.609	454
7	161.5	261.6	3687.610	3687.611	454
9	181.5	261.6	9904.930	9904.932	454
10	202	261.6	9904.931	9904.933	454
12	242.5	261.6	3686.634 ¹⁾	3686.473 ¹⁾	454
21	425.5	261.6	3686.635 ¹⁾	3686.474 ¹⁾	454

¹⁾ GOST R (see page 98).

Slots	Dimensions in mm		Model No. RP		Cat. 31 page
	Width	Height	without P0 connector	with P0 connector	
6.5 U					
5	100	283.7	9910.012	9910.007	454
7	161.5	283.7	9910.013	9910.008	454
9	181.5	283.7	9910.014	9910.009	454
10	202	283.7	9904.928	9904.929	454
12	242.5	283.7	9910.015	9910.010	454
21	425.5	283.7	9910.016	9910.011	454



Backplanes VME J1/J2 Monolithic

Slots	Dimensions in mm		Model No. RP		Cat. 31 page
	Width	Height	passive	active	
2	39.5	261.7	3686.475¹⁾	3686.495	455
3	59.5	261.7	3686.476¹⁾	3686.496¹⁾	455
4	80	261.7	3686.477¹⁾	3686.497¹⁾	455
5	100	261.7	3686.478¹⁾	3686.498¹⁾	455
6	120.5	261.7	3686.479¹⁾	3686.499¹⁾	455
7	141	261.7	3686.480¹⁾	3686.500¹⁾	455
8	161.5	261.7	3686.481¹⁾	3686.501¹⁾	455
9	181.5	261.7	3686.482¹⁾	3686.502¹⁾	455
10	202	261.7	3686.483¹⁾	3686.503¹⁾	455
11	222.5	261.7	3686.484¹⁾	3686.504¹⁾	455

¹⁾ GOST R (see page 98).

Slots	Dimensions in mm		Model No. RP		Cat. 31 page
	Width	Height	passive	active	
12	242.5	261.7	3686.485¹⁾	3686.505¹⁾	455
13	263	261.7	3686.486¹⁾	3686.506¹⁾	455
14	283	261.7	3686.487¹⁾	3686.507¹⁾	455
15	303.5	261.7	3686.488¹⁾	3686.508¹⁾	455
16	324	261.7	3686.489¹⁾	3686.509¹⁾	455
17	344	261.7	3686.490¹⁾	3686.510¹⁾	455
18	364.5	261.7	3686.491¹⁾	3686.511¹⁾	455
19	385	261.7	3686.492¹⁾	3686.512¹⁾	455
20	405	261.7	3686.493¹⁾	3686.513¹⁾	455
21	425.5	261.7	3686.494¹⁾	3686.514¹⁾	455

¹⁾ GOST R (see page 98).



Backplanes VME J1 system bus

Slots	Dimensions in mm		Model No. RP	Cat. 31 page
	Width	Height		
3	59.5	128.4	3686.555¹⁾	456
4	80	128.4	3686.556¹⁾	456
5	100	128.4	3686.557¹⁾	456
6	120.5	128.4	3686.558¹⁾	456
7	141	128.4	3686.559¹⁾	456
8	161.5	128.4	3686.560¹⁾	456
9	181.5	128.4	3686.561¹⁾	456
10	202	128.4	3686.562¹⁾	456

¹⁾ GOST R (see page 98).

Slots	Dimensions in mm		Model No. RP	Cat. 31 page
	Width	Height		
12	242.5	128.4	3686.563¹⁾	456
13	263	128.4	3686.564¹⁾	456
14	283	128.4	3686.565¹⁾	456
15	303.5	128.4	3686.566¹⁾	456
18	364.5	128.4	3686.567¹⁾	456
20	405	128.4	3686.568¹⁾	456
21	425.5	128.4	3686.569¹⁾	456

¹⁾ GOST R (see page 98).



3.2 VME

Backplanes VME J2 expansion bus

Slots	Dimensions in mm		Model No. RP	Cat. 31 page
	Width	Height		
3	59.5	128.4	3686.585¹⁾	456
4	80	128.4	3686.586¹⁾	456
5	100	128.4	3686.587¹⁾	456
6	120.5	128.4	3686.588¹⁾	456
7	161.5	128.4	3686.589¹⁾	456
8	161.5	128.4	3686.590¹⁾	456
9	181.5	128.4	3686.591¹⁾	456
10	202	128.4	3686.592¹⁾	456

¹⁾ GOST R (see page 98).

Slots	Dimensions in mm		Model No. RP	Cat. 31 page
	Width	Height		
12	242.5	128.4	3686.593¹⁾	456
13	263	128.4	3686.594¹⁾	456
14	283	128.4	3686.595¹⁾	456
15	303.5	128.4	3686.596¹⁾	456
18	364.5	128.4	3686.597¹⁾	456
20	405	128.4	3686.598¹⁾	456
21	425.5	128.4	3686.599¹⁾	456

¹⁾ GOST R (see page 98).



3.3 System housings for industrial PCs

U	Dimensions in mm			Packs of	Model No. RP	Cat. 31 page
	Width	Height Flanges/ Side panels	Depth			
ATX Ripac 4 U, aluminium						
4	482.6 (19")	177	440	1	3659.000 ¹⁾	462
ATX 1, 2 and 4 U, sheet steel						
1	482.6 (19")	44	532.5/530	1	3659.500	463
2	482.6 (19")	88	532/530	1	3659.640	471
4	482.6 (19")	177/174	442.5/440	1	3659.900	465
ATX Economy with front door 4 U, sheet steel						
4	482.6 (19")	177/174	430/415	1	3659.100	466
Modular system AT/ATX Vario Economy with front door, 4 U, sheet steel						
Expansion for AT/ATX power pack (PS/2) or redundant power pack (PS/2), ATX/AT 8 + 4 slots/AT 14 slots. Basic enclosure individually upgradable for AT or ATX applications.						
4	482.6 (19")	177/174	430	1	3659.400	467
ATX with front connections for 482.6 mm (19") installation, 4 U						
4	482.6 (19")	177/174	442.5/440	1	3659.700	468
ATX with front connections for wall mounting						
	380	330	292.5/290	1	3659.710	469
ATX for PICMG backplane, 4 U, sheet steel						
4	482.6 (19")	177/174	442.5/440	1	3659.650	470

Fully assembled, wired and tested.

¹⁾ GOST R (see page 98).



3.3 System housings for storage devices

Design	Dimensions in mm			Packs of	Model No. RP	Cat. 31 page
	Width	Height Flanges/ Side panels	Depth			
19" RAID subrack	482.6 (19")	177 (4 U)	455/440	1	3659.300	472
19" ATX RAID subrack, 6-drive	482.6 (19")	177/174 (4 U)	455/440	1	3659.420	473
19" ATX RAID subrack, 9-drive	482.6 (19")	177 (4 U)	692.5/690	1	3659.430	474

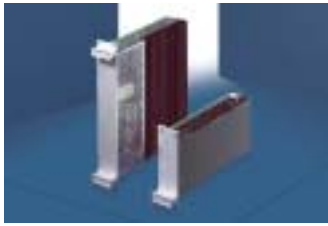
Fully assembled, wired and tested.



3.4 Power supplies

Power supplies – Open Frame

Watts	Output voltage/output current			Model No. RP				Cat. 31 page
	Output 1	Output 2	Output 3	35 A	60 A	85 A	110 A	
250	5 V/35 A	+12 V/8 A	–12 V/8 A	3686.622	–	–	–	479
400	5 V/60 A, 85 A	+12 V/8 A	–12 V/8 A	–	3686.623	3686.629	–	479
600	5 V/85 A	+12 V/8 A	–12 V/8 A	–	–	3686.624	–	479
1000	5 V/110 A	+12 V/16 A	–12 V/8 A	–	–	–	3686.625	479



Power supplies, plug-in

Watts	Width (HP)	Height (U)	Output voltage/output current			Model No. RP		Cat. 31 page
			Output 1	Output 2	Output 3	Power supply	Font panel	
130	10	3	5 V/14 A	+12 V/5 A	–12 V/2 A	3686.469¹⁾	3685.304	480
160	12	3	5 V/20 A	+12 V/5 A	–12 V/2 A	3686.470¹⁾	3685.305	480
160	8	6	5 V/20 A	+12 V/5 A	–12 V/2 A	3686.471¹⁾	3686.472	480
270	12	6	5 V/35 A	+12 V/6 A	–12 V/2 A	3685.306	3685.307	480

¹⁾ GOST R (see page 98).



CPCI power supplies, plug-in

Watts	Width (HP)	Height (U)	Output voltage/output current				Output current Output 1 + 2	Model No. RP		Cat. 31 page
			Output 1	Output 2	Output 3	Output 4		Power supply AC	Power supply DC	
175	8	3	5 V/25 A	3.3 V/20 A	12 V/5 A	–12 V/0.5 A	30 A max.	3688.534	3688.537	481
200	8	3	5 V/30 A	3.3 V/25 A	12 V/5 A	–12 V/0.5 A	38 A max.	3688.694	3688.655	481
250	8	3	5 V/33 A	3.3 V/33 A	12 V/6 A	–12 V/1.5 A	38 A max.	3688.695	3688.696	481
350	8	6	5 V/40 A	3.3 V/40 A	12 V/9 A	–12 V/1 A	80 A max.	3688.528	3688.530	481



CPCI open frame power supply

Watts	Dimensions in mm			Model No. RP	Cat. 31 page
	Height	Width	Depth		
400	126	63	279	3687.695	482



CPCI power supply, plug-in

Watts	Height (U)	Width (HP)	Model No. RP		Cat. 31 page
			Power supply	Front panel for power supply	
180	3	12	3686.682	3685.330	482



3.4 Power supplies

AT/ATX power supply

Design	Watts	PFC	Packs of	Model No. RP	Cat. 31 page
ATX power supply for external switch					
ATX	300	passive	1	3687.793	483
AT/ATX power supply					
AT	300	passive	1	3688.118	483
AT for RAID	300	passive	1	3688.119	483
ATX	300	passive	1	3688.121	483
ATX	250	active	1	3688.127	483
ATX	300	active	1	3688.129	483
ATX	400	active	1	3688.128	483
ATX power supply unit 1 U					
ATX	200	active	1	3688.130	484



Front panel for ATX power supply

U	HP	Model No. RP		Cat. 31 page
		EMC	Non-EMC	
3	42	3685.331	3685.328	483
6	21	3685.332	3685.329	483



Redundant power supply

Design	Watts	PFC	Packs of	Model No. RP	Cat. 31 page
for RAID					
RAID version	2 x 300	active	1	3688.125	484
Power pack module (spare)			1	3688.126	484
for ATX					
ATX version (1 connector)	2 x 300	active	1	3688.123	484
Power pack module (spare)			1	3688.124	484
ATX version (2 connectors)	2 x 300	active	1	3688.120	485
Power pack module (spare)			1	3688.122	485



Uninterruptible power supply

Power	Input/output voltage	Input frequency	Output frequency	Model No. RP	Cat. 31 page
300 VA/180 W	220, 230, 240 V AC $\pm 15\%$	50 Hz $\pm 5\%$	50 Hz $\pm 1\%$	3659.080	482



3.5 Subracks

Ripac ECO 3 U, 6 U, sheet steel

Side panel depth mm	Maximum board depth mm	Model No. RP		Cat. 31 page
		3 U	6 U	
175	160	3688.114¹⁾	3688.116¹⁾	488
235	220	3688.115¹⁾	3688.117¹⁾	488

¹⁾ GOST R (see page 98).



3.5 Subracks

Ripac Vario

3 U, 6 U, 9 U

Side panel depth mm	Maximum board depth mm	Model No. RP						Cat. 31 page
		3 U		6 U		9 U		
		For backplane	For connector IEC 60 603-2	For backplane	For connector IEC 60 603-2	For backplane	For connector IEC 60 603-2	
185	160	3684.020 ¹⁾	3684.034 ¹⁾	3684.043 ¹⁾	3684.056 ¹⁾	—	—	489
225	160	3684.021 ¹⁾	3684.035 ¹⁾	3684.044 ¹⁾	3684.057 ¹⁾	—	—	489
245	220	3684.022 ¹⁾	3684.036 ¹⁾	3684.045 ¹⁾	3684.058 ¹⁾	—	—	489
285	220	3684.023 ¹⁾	3685.281 ¹⁾	3684.046 ¹⁾	—	—	—	489
305	280	3685.231 ¹⁾	3685.233 ¹⁾	3685.238 ¹⁾	3685.240 ¹⁾	—	—	489
345	280	3684.024 ¹⁾	—	3684.047 ¹⁾	—	3684.051 ¹⁾	3684.059 ¹⁾	489
365	340	3685.232 ¹⁾	3685.234 ¹⁾	3685.239 ¹⁾	—	—	—	489
405	340	3684.025 ¹⁾	—	3684.048 ¹⁾	—	3684.052 ¹⁾	3684.060 ¹⁾	489
465	400	3684.026 ¹⁾	—	3684.049 ¹⁾	—	3684.053 ¹⁾	3684.061 ¹⁾	489
525	400	3684.027 ¹⁾	—	3684.050 ¹⁾	—	3684.054 ¹⁾	—	489
585	400	—	—	—	—	3684.055 ¹⁾	—	489

4 U, 7 U

Side panel depth mm	Maximum board depth mm	Model No. RP						Cat. 31 page
		4 U (3 + 1)		4 U (3 + 2 x 1/2)		7 U (6 + 1)	7 U (6 + 2 x 1/2)	
		For backplane	For connector IEC 60 603-2	For backplane	For connector IEC 60 603-2	For backplane	For backplane	
245	220	3685.235 ¹⁾	—	—	—	—	—	490
285	220	3684.028 ¹⁾	3684.037 ¹⁾	3684.031 ¹⁾	3684.040 ¹⁾	—	—	490
305	280	3685.236 ¹⁾	—	—	—	—	—	490
345	280	3684.029 ¹⁾	3684.038 ¹⁾	3684.032 ¹⁾	3684.041 ¹⁾	—	—	490
365	340	3685.237 ¹⁾	—	—	—	—	—	490
405	340	3684.030 ¹⁾	3684.039 ¹⁾	3684.033 ¹⁾	3684.042 ¹⁾	3684.064 ¹⁾	3684.062 ¹⁾	490
465	400	—	—	—	—	3684.065 ¹⁾	3684.063 ¹⁾	490

¹⁾ GOST R (see page 98).



Ripac Vario EMC

3 U, 6 U, 9 U

Side panel depth mm	Maximum board depth mm	Model No. RP						Cat. 31 page
		3 U		6 U		9 U		
		For backplane	For backplane ²⁾	For backplane	For backplane ²⁾	For backplane	For backplane ²⁾	
245	160	3684.128 ¹⁾	3684.142 ¹⁾	3684.156 ¹⁾	3684.169 ¹⁾	—	—	491
285	220	3684.129 ¹⁾	3684.143 ¹⁾	3684.157 ¹⁾	3684.170 ¹⁾	—	—	491
305	220	3685.241 ¹⁾	3685.243 ¹⁾	3685.242 ¹⁾	3685.244 ¹⁾	—	—	491
345	280	3684.130 ¹⁾	3684.144 ¹⁾	3684.158 ¹⁾	3684.171 ¹⁾	3684.162 ¹⁾	3684.175 ¹⁾	491
405	340	3684.131 ¹⁾	3684.145 ¹⁾	3684.159 ¹⁾	3684.172 ¹⁾	3684.163 ¹⁾	3684.176 ¹⁾	491
465	400	3684.132 ¹⁾	3684.146 ¹⁾	3684.160 ¹⁾	3684.173 ¹⁾	3684.164 ¹⁾	3684.177 ¹⁾	491
525	400	3684.133 ¹⁾	3684.147 ¹⁾	3684.161 ¹⁾	3684.174 ¹⁾	3684.165 ¹⁾	3684.178 ¹⁾	491
585	400	—	—	—	—	3684.166 ¹⁾	3684.179 ¹⁾	491

4 U

Side panel depth mm	Maximum board depth mm	Model No. RP				Cat. 31 page
		4 U (3 + 1)		4 U (3 + 2 x 1/2)		
		For backplane	For backplane ²⁾	For backplane	For backplane ²⁾	
285	220	3684.134 ¹⁾	3684.148 ¹⁾	3684.137 ¹⁾	3684.151 ¹⁾	492
345	280	3684.135 ¹⁾	3684.149 ¹⁾	3684.138 ¹⁾	3684.152 ¹⁾	492
405	340	3684.136 ¹⁾	3684.150 ¹⁾	3684.139 ¹⁾	3684.153 ¹⁾	492

7 U

Side panel depth mm	Maximum board depth mm	Model No. RP				Cat. 31 page
		7 U (6 + 1)		7 U (6 + 2 x 1/2)		
		For backplane	For backplane ²⁾	For backplane	For backplane ²⁾	
285	220	3684.187 ¹⁾	3684.192 ¹⁾	—	—	492
345	280	3684.188 ¹⁾	3684.193 ¹⁾	3684.189 ¹⁾	3684.196 ¹⁾	492
405	340	3684.180 ¹⁾	3684.194 ¹⁾	3684.190 ¹⁾	3684.197 ¹⁾	492
465	400	3684.181 ¹⁾	3684.195 ¹⁾	3684.191 ¹⁾	3684.198 ¹⁾	492

¹⁾ GOST R (see page 98).

²⁾ Front horizontal rails with 10 mm extension for injector/extractor handles.



3.5 Subracks

Ripac Compact 3 U, 6 U

Side panel depth mm	Max. PCB depth mm	Model No. RP					Cat. 31 page
		3 U				6 U	
		21 HP		42 HP		42 HP	
		Top hat rail	Mounting plate	Top hat rail	Mounting plate	Mounting plate	
For backplane							
225	160	3687.667	3687.669	3687.671	3687.673	3687.680	493
285	220	3687.668	3687.670	3687.672	3687.674	3687.681	493
For backplane – EMC version							
225	160	3687.682	3687.684	3687.686	3687.688	3687.690	493
285	220	3687.683	3687.685	3687.687	3687.689	3687.691	493



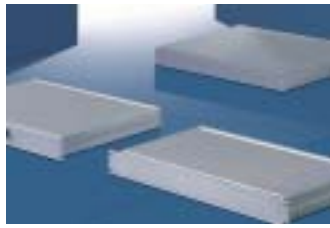
Ripac Vario Mobil 3 U, 6 U, for mobile use

Side panel depth mm	Maximum board depth mm	Model No. RP						Cat. 31 page
		3 U			6 U			
		For backplane	For connector IEC 60 603-2	For backplane – EMC version	For backplane	For connector IEC 60 603-2	For backplane – EMC version	
245	220	3687.782	3687.780	3687.784	3687.783	3687.781	3687.785	494



Accessories for subracks

	Cat. 31 page
Subracks, individual components	
Side panels and flanges	495 – 497
Horizontal rails	498 – 505
Subrack climate control	519 – 524
Accessories for subracks	
Components for EMC installation	506 – 507
Mounting kits	508 – 509
Guide rails	509 – 513
Keying/PCB ejectors	514
Covers	515 – 518
Front panels, handles	525 – 540
Ripac box type plug-in units	541
Ripac box type plug-in units – individual components	542 – 543
Ripac box-type plug-in units for drives	544
Ripac box-type plug-in units, covers and guides	545
Connector	546 – 551
Assembly parts	576 – 577



3.6 Instrument cases/system enclosures

RiBox system enclosures 1 U

Dimensions in mm		Model No. RP	Cat. 31 page
Width	Depth		
19" rack mount			
19" (482.6)	150	3687.814 ¹⁾	554
19" (482.6)	200	3687.815 ¹⁾	554
19" (482.6)	250	3687.816 ¹⁾	554
19" (482.6)	300	3687.817 ¹⁾	554
19" (482.6)	350	3687.818 ¹⁾	554
19" rack mount including assembly kit for double Euroboards			
19" (482.6)	250	3684.072	554
19" (482.6)	350	3684.073	554
Instrument cases			
447	150	3687.819 ¹⁾	554
447	200	3687.820 ¹⁾	554
447	250	3687.821 ¹⁾	554
447	300	3687.822 ¹⁾	554
447	350	3687.823 ¹⁾	554

¹⁾ GOST R (see page 98).

Ripac Vario-Module, system enclosures



U	Installation width (HP)	Depth mm	Packs of	Model No. VM	Also required:				Cat. 31 page
				Basic enclosure	Top covers		Bottom covers		
					Vented	Unvented	Vented	Unvented	
3	42	250.4	1	3982.040	3982.941	3982.901	3982.741	3982.701	555
3	42	310.4	1	3982.070	3982.951	3982.911	3982.751	3982.711	555
3	63	250.4	1	3982.050	3982.942	3982.902	3982.742	3982.702	555
3	63	310.4	1	3982.080	3982.952	3982.912	3982.752	3982.712	555
3	84	250.4	1	3982.060	3982.940	3982.900	3982.740	3982.700	555
3	84	310.4	1	3982.090	3982.950	3982.910	3982.750	3982.710	555
3	84	370.4	1	3982.100	3982.960	3982.920	3982.760	3982.720	555
4 (3 + 1)	84	250.4	1	3982.110	3982.940	3982.900	3982.740	3982.700	555
4 (3 + 1)	84	310.4	1	3982.120	3982.950	3982.910	3982.750	3982.710	555
4 (3 + 1)	84	370.4	1	3982.130	3982.960	3982.920	3982.760	3982.720	555
6	84	310.4	1	3982.140	3982.950	3982.910	3982.750	3982.710	557
6	84	370.4	1	3982.150	3982.960	3982.920	3982.760	3982.720	557
6	84	430.4	1	3982.160	3982.970	3982.930	3982.770	3982.730	557
7 (6 + 1)	84	310.4	1	3982.170	3982.950	3982.910	3982.750	3982.710	557
7 (6 + 1)	84	430.4	1	3982.190	3982.970	3982.930	3982.770	3982.730	557

U	Installation width (HP)	Depth mm	Packs of	Model No. VM	Also required:				Cat. 31 page
				Basic enclosure (EMC)	EMC top covers		EMC bottom covers		
					Vented	Unvented	Vented	Unvented	
3	42	250.4	1	3983.040	3981.941 ¹⁾	3981.901	3981.741 ¹⁾	3981.701	556
3	42	310.4	1	3983.070	3981.951 ¹⁾	3981.911	3981.751 ¹⁾	3981.711	556
3	63	250.4	1	3983.050	3981.942 ¹⁾	3981.902	3981.742 ¹⁾	3981.702	556
3	63	310.4	1	3983.080	3981.952 ¹⁾	3981.912	3981.752 ¹⁾	3981.712	556
3	84	250.4	1	3983.060	3981.940 ¹⁾	3981.900	3981.740 ¹⁾	3981.700	556
3	84	310.4	1	3983.090	3981.950 ¹⁾	3981.910	3981.750 ¹⁾	3981.710	556
3	84	370.4	1	3983.100	3981.960	3981.920	3981.760	3981.720	556
4 (3 + 1)	84	250.4	1	3983.110	3981.940 ¹⁾	3981.900	3981.740 ¹⁾	3981.700	556
4 (3 + 1)	84	310.4	1	3983.120	3981.950 ¹⁾	3981.910	3981.750 ¹⁾	3981.710	556
4 (3 + 1)	84	370.4	1	3983.130	3981.960	3981.920	3981.760	3981.720	556
6	84	310.4	1	3983.140	3981.950 ¹⁾	3981.910	3981.750 ¹⁾	3981.710	558
6	84	370.4	1	3983.150	3981.960	3981.920	3981.760	3981.720	558
6	84	430.4	1	3983.160	3981.970 ¹⁾	3981.930	3981.770 ¹⁾	3981.730	558
7 (6 + 1)	84	310.4	1	3983.170	3981.950 ¹⁾	3981.910	3981.750 ¹⁾	3981.710	558
7 (6 + 1)	84	430.4	1	3983.190	3981.970 ¹⁾	3981.930	3981.770 ¹⁾	3981.730	558

¹⁾ GOST R (see page 98).



3.6 Instrument cases/system enclosures

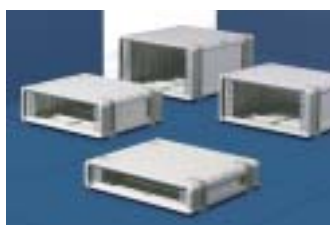
Rittal RiCase, instrument case

U	Depth mm		Model No. RC						Cat. 31 page
	Vented	Not vented	Vented RAL 5018 ²⁾	Unvented RAL 5018 ²⁾	Vented RAL 5012 ²⁾	Unvented RAL 5012 ²⁾	Vented RAL 7030	Unvented RAL 7030	
Rittal RiCase 269.2 mm (1½ 19")									
1	420	300	3750.110 ¹⁾	3750.100 ¹⁾	3750.112 ¹⁾	3750.102 ¹⁾	3750.114 ¹⁾	3750.104 ¹⁾	562
2	540	300	3750.220 ¹⁾	3750.200 ¹⁾	3750.222 ¹⁾	3750.202 ¹⁾	3750.224 ¹⁾	3750.204 ¹⁾	562
3	420	300	3750.350 ¹⁾	3750.210 ¹⁾	3750.352 ¹⁾	3750.212 ¹⁾	3750.354 ¹⁾	3750.214 ¹⁾	562
3	540	420	3750.360 ¹⁾	3750.300 ¹⁾	3750.362 ¹⁾	3750.302 ¹⁾	3750.364 ¹⁾	3750.304 ¹⁾	562
4	540	420	3750.450 ¹⁾	3750.400 ¹⁾	3750.452 ¹⁾	3750.402 ¹⁾	3750.454 ¹⁾	3750.404 ¹⁾	562
Rittal RiCase 482.6 mm (19")									
3	300	300	3750.330 ¹⁾	3750.310 ¹⁾	3750.332 ¹⁾	3750.312 ¹⁾	3750.334 ¹⁾	3750.314 ¹⁾	563
3	420	420	3750.340 ¹⁾	3750.320 ¹⁾	3750.342 ¹⁾	3750.322 ¹⁾	3750.344 ¹⁾	3750.324 ¹⁾	563
4	300	300	3750.430 ¹⁾	3750.410 ¹⁾	3750.432 ¹⁾	3750.412 ¹⁾	3750.434 ¹⁾	3750.414 ¹⁾	563
4	420	420	3750.440 ¹⁾	3750.420 ¹⁾	3750.442 ¹⁾	3750.422 ¹⁾	3750.444 ¹⁾	3750.424 ¹⁾	563
6	300	300	3750.630 ¹⁾	3750.600 ¹⁾	3750.632 ¹⁾	3750.602 ¹⁾	3750.634 ¹⁾	3750.604 ¹⁾	563
6	420	420	3750.640 ¹⁾	3750.610 ¹⁾	3750.642 ¹⁾	3750.612 ¹⁾	3750.644 ¹⁾	3750.614 ¹⁾	563
6	540	540	3750.650 ¹⁾	3750.620 ¹⁾	3750.652 ¹⁾	3750.622 ¹⁾	3750.654 ¹⁾	3750.624 ¹⁾	563
7	420	420	3750.720 ¹⁾	3750.700 ¹⁾	3750.722 ¹⁾	3750.702 ¹⁾	3750.724 ¹⁾	3750.704 ¹⁾	563
7	540	540	3750.730 ¹⁾	3750.710 ¹⁾	3750.732 ¹⁾	3750.712 ¹⁾	3750.734 ¹⁾	3750.714 ¹⁾	563
9	420	420	3750.920 ¹⁾	3750.900 ¹⁾	3750.922 ¹⁾	3750.902 ¹⁾	3750.924 ¹⁾	3750.904 ¹⁾	563
9	540	540	3750.930 ¹⁾	3750.910 ¹⁾	3750.932 ¹⁾	3750.912 ¹⁾	3750.934 ¹⁾	3750.914 ¹⁾	563
12	540	540	3750.030 ¹⁾	3750.000 ¹⁾	3750.032 ¹⁾	3750.002 ¹⁾	3750.034 ¹⁾	3750.004 ¹⁾	563

Packs of 1.

¹⁾ GOST R (see page 98).

²⁾ Extended delivery times.



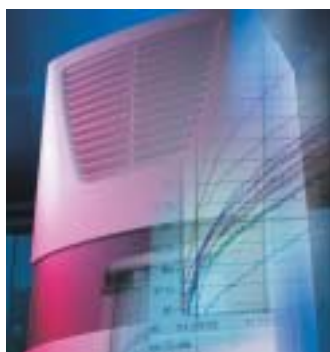
Rittal Vario-Case iS, instrument case

Rittal Vario-Case iS, 269.2 mm (1½ 19")					
U	Depth	Packs of	Model No. VC		Cat. 31 page
			Without vent slots	With vent slots	
Rittal Vario-Case iS, 269.2 mm (1½ 19")					
1	300	1	3710.000 ¹⁾	—	569
2	300	1	3720.000 ¹⁾	—	569
3	300	1	3730.000 ¹⁾	—	569
3	400	1	3731.000 ¹⁾	—	569
4	300	1	3740.000 ¹⁾	—	569
4	400	1	3741.000 ¹⁾	—	569
Rittal Vario-Case iS, 482.6 mm (19")					
1	300	1	3713.000 ¹⁾²⁾	3713.200 ¹⁾²⁾	570
1	400	1	3714.000 ¹⁾	3714.200 ¹⁾	570
4	300	1	3743.000 ¹⁾³⁾	3743.200 ¹⁾	570
4	400	1	3744.000 ¹⁾	3744.200 ¹⁾	570
4	500	1	3745.000 ¹⁾²⁾	3745.200 ¹⁾²⁾	570
7	400	1	3774.000 ¹⁾³⁾	3774.200 ¹⁾	570
7	500	1	3775.000 ¹⁾	3775.200 ¹⁾	570
3	300	1	3733.000 ¹⁾³⁾	3733.200 ¹⁾	571
3	400	1	3734.000 ¹⁾³⁾	3734.200 ¹⁾	571
3	500	1	3735.000 ¹⁾	3735.200 ¹⁾	571
6	300	1	3763.000 ¹⁾	3763.200 ¹⁾	571
6	400	1	3764.000 ¹⁾³⁾	3764.200 ¹⁾	571
6	500	1	3765.000 ¹⁾³⁾	3765.200 ¹⁾	571
9	400	1	3794.000 ¹⁾	3794.200 ¹⁾	571
9	500	1	3795.000 ¹⁾³⁾	3795.200 ¹⁾	571

¹⁾ GOST R (see page 98).

²⁾ Extended delivery times.

³⁾ To order EMC version, please add extension .700 to the Model No.



System climate control creates the correct ambient conditions for every application, particularly for sensitive electronics.

A broad selection of cooling units, recooling systems, heat exchangers, fan-and-filter units and enclosure heaters protects against adverse physical and thermal influences. This is supplemented by versatile accessory components.

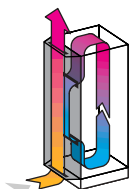
With a full advisory service and its PC software package Rittal Therm, Rittal will help you to select the correct climate control unit to suit your precise requirements.

Enhanced operational reliability and a longer service life for electronics

- Climate controlled enclosure systems
- Cooling units
- Recooling systems
- Heat exchangers
- Fan-and-filter unit
- Roof-mounted fans
- Rack-mounted climate control
- Enclosure heaters
- Cooling



Detailed information and the current status of approvals can be found on our website at www.rittal.com



4.1 Climate controlled enclosures

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1100 W	600 x 1800 x 600	230, 50/60	8687.100 ¹⁾	■	■		■	582
	600 x 2000 x 600		8607.100 ¹⁾	■	■		■	582
	600 x 1800 x 600	400, 2~, 50/60	8687.840 ¹⁾	■	■		■	582
	600 x 2000 x 600		8607.840 ¹⁾	■	■		■	582
1500 W	800 x 1800 x 600	230, 50/60	8887.150 ¹⁾	■	■	■	■	582
	800 x 2000 x 600		8807.100 ¹⁾	■	■	■	■	582
	800 x 1800 x 600	400, 2~, 50/60	8887.140 ¹⁾	■	■	■	■	582
	800 x 2000 x 600		8807.140 ¹⁾	■	■	■	■	582
2000 W	1200 x 1800 x 600	230, 50/60	8287.170 ¹⁾	■	■			583
			8807.180 ¹⁾	■	■			583
	1200 x 2000 x 600		8207.170 ¹⁾	■	■			583
			8207.180 ¹⁾	■	■			583
2500 W	1200 x 1800 x 600	400, 3~, 50/60	8807.260 ¹⁾					583
	1200 x 2000 x 600		8807.250 ¹⁾					583

Delivery times available on request.

¹⁾ GOST R (see page 98).

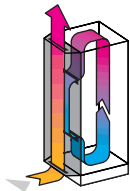
4.1 Climate control doors

for single-door TS 8 enclosures with thermostat

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1100 W	600 x 1800	230, 50/60	3306.880 ¹⁾²⁾	■	■		■	584
	600 x 2000		3306.800 ¹⁾²⁾	■	■		■	584
	600 x 1800	400, 2~, 50/60	3306.884 ¹⁾²⁾	■	■		■	584
	600 x 2000		3306.840 ¹⁾²⁾	■	■		■	584
1500 W	600 x 1800	230, 50/60	3307.880 ¹⁾²⁾					584
	600 x 2000		3307.800 ¹⁾²⁾					584
	600 x 1800	400, 2~, 50/60	3307.890 ¹⁾²⁾					584
	600 x 2000		3307.840 ¹⁾					584
	800 x 1800	230, 50/60	3308.880 ¹⁾²⁾	■	■	■	■	585
	800 x 2000		3308.800 ¹⁾²⁾	■	■	■	■	585
	800 x 1800	400, 2~, 50/60	3308.884 ¹⁾²⁾	■	■	■	■	585
	800 x 2000		3308.840 ¹⁾²⁾	■	■	■	■	585
2000 W	600 x 1800	230, 50/60	3309.880 ¹⁾²⁾	■	■			586
	600 x 2000		3309.800 ¹⁾	■	■			586
	600 x 1800	400, 2~, 50/60	3309.884 ¹⁾²⁾	■	■			586
	600 x 2000		3309.840 ¹⁾²⁾	■	■			586
2500 W	600 x 1800	400, 3~, 50/60	3310.880 ¹⁾²⁾					586
	600 x 2000		3310.800 ¹⁾					586

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



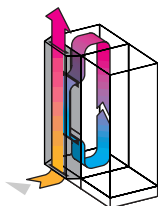
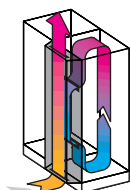
4.1 Climate control doors

for single-door TS 8 enclosures with microcontroller

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1100 W	600 x 1800	230, 50/60	3306.580 ¹⁾²⁾	■	■			584
	600 x 2000		3306.500 ¹⁾²⁾	■	■			584
	600 x 1800	400, 2~, 50/60	3306.590 ¹⁾²⁾	■	■			584
	600 x 2000		3306.540 ¹⁾²⁾	■	■			584
1500 W	600 x 1800	230, 50/60	3307.580 ¹⁾²⁾					584
	600 x 2000		3307.500 ¹⁾²⁾					584
	600 x 1800	400, 2~, 50/60	3307.590 ¹⁾²⁾					584
	600 x 2000		3307.540 ¹⁾²⁾					584
	800 x 1800	230, 50/60	3308.580 ¹⁾²⁾	■	■			585
	800 x 2000		3308.500 ¹⁾	■	■			585
	800 x 1800	400, 2~, 50/60	3308.590 ¹⁾²⁾	■	■			585
	800 x 2000		3308.540 ¹⁾	■	■			585
2000 W	600 x 1800	230, 50/60	3309.580 ¹⁾²⁾	■	■			586
	600 x 2000		3309.500 ¹⁾	■	■			586
	600 x 1800	400, 2~, 50/60	3309.590 ¹⁾²⁾					586
	600 x 2000		3309.540 ¹⁾					586
2500 W	600 x 1800	400, 3~, 50/60	3310.580 ¹⁾²⁾					586
	600 x 2000		3310.500 ¹⁾²⁾					586

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.

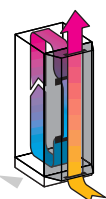


for two-door TS 8 enclosures

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Device position	Model No. SK		Approvals				Cat. 31 page
				With thermostat	With micro-controller	UL	CUL	DIN	GS	
1100 W	1200 x 1800	230, 50/60	right	3306.250 ¹⁾	3306.550 ¹⁾	■	■			587
		400, 2~, 50/60		3306.450 ¹⁾	3306.650 ¹⁾	■	■			587
	1200 x 2000	230, 50/60	right	3306.210 ¹⁾	3306.510 ¹⁾	■	■			587
		400, 2~, 50/60		3306.410 ¹⁾	3306.610 ¹⁾	■	■			587
	1200 x 1800	230, 50/60	left	3306.270 ¹⁾	3306.570 ¹⁾	■	■			587
		400, 2~, 50/60		3306.470 ¹⁾	3306.670 ¹⁾	■	■			587
		230, 50/60		3306.230 ¹⁾	3306.530 ¹⁾	■	■			587
		400, 2~, 50/60		3306.430 ¹⁾	3306.630 ¹⁾	■	■			587
1500 W	1200 x 1800	230, 50/60	right	3307.250 ¹⁾	3307.550 ¹⁾					587
		400, 2~, 50/60		3307.450 ¹⁾	3307.650 ¹⁾					587
	1200 x 2000	230, 50/60	right	3307.210 ¹⁾	3307.510 ¹⁾					587
		400, 2~, 50/60		3307.410 ¹⁾	3307.610 ¹⁾					587
	1200 x 1800	230, 50/60	left	3307.270 ¹⁾	3307.570 ¹⁾					587
		400, 2~, 50/60		3307.470 ¹⁾	3307.670 ¹⁾					587
		230, 50/60		3307.230 ¹⁾	3307.530 ¹⁾					587
		400, 2~, 50/60		3307.430 ¹⁾	3307.630 ¹⁾					587
2000 W	1200 x 1800	230, 50/60	right	3309.170 ¹⁾	3309.570 ¹⁾	■	■			588
		400, 2~, 50/60		3309.470 ¹⁾	3309.670 ¹⁾					588
	1200 x 2000	230, 50/60	right	3309.120 ¹⁾	3309.520 ¹⁾	■	■			588
		400, 2~, 50/60		3309.420 ¹⁾	3309.620 ¹⁾					588
	1200 x 1800	230, 50/60	left	3309.210 ¹⁾	3309.510 ¹⁾	■	■			588
		400, 2~, 50/60		3309.410 ¹⁾	3309.610 ¹⁾					588
		230, 50/60		3309.140 ¹⁾	3309.530 ¹⁾	■	■			588
		400, 2~, 50/60		3309.440 ¹⁾	3309.640 ¹⁾					588
2500 W	1200 x 1800	400, 3~, 50/60	right	3310.250 ¹⁾	3310.650 ¹⁾					588
	1200 x 2000		right	3310.230 ¹⁾	3310.630 ¹⁾					588
	1200 x 1800	400, 3~, 50/60	left	3310.150 ¹⁾	3310.550 ¹⁾					588
	1200 x 2000		left	3310.130 ¹⁾	3310.530 ¹⁾					588

Delivery times available on request.

¹⁾ GOST R (see page 98).

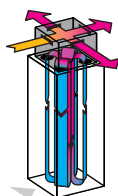


4.1 Climate control side panels for TS 8 enclosures

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1100 W	1800 x 600	230, 50/60	3331.116¹⁾					589
	2000 x 600		3331.316¹⁾					589
	1800 x 600	400, 2~, 50/60	3331.140¹⁾²⁾					589
	2000 x 600		3331.340¹⁾²⁾					589
1400 W	1800 x 600	230, 50/60	3331.216¹⁾²⁾					589
	2000 x 600		3331.416¹⁾					589
	1800 x 600	400, 2~, 50/60	3331.240¹⁾²⁾					589
	2000 x 600		3331.440¹⁾²⁾					589

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



4.1 TopTherm roof-mounted cooling units

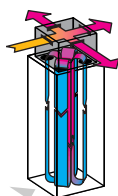
Useful cooling output	For enclosure dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
500 W	597 x 415 x 375	230, 50/60	3382.100¹⁾	3382.500¹⁾	■	■			590
		115, 50/60	3382.110¹⁾	3382.510¹⁾	■	■			590
750 W	597 x 415 x 375	230, 50/60	3359.100¹⁾	3359.500¹⁾	■	■			590
		115, 50/60	3359.110¹⁾	3359.510¹⁾	■	■			590
		400, 2~, 50/60	3359.140¹⁾	3359.540¹⁾	■	■			590
		230, 50/60	3383.100¹⁾	3383.500¹⁾	■	■			591
		115, 50/60	3383.110¹⁾	3383.510¹⁾	■	■			591
		400, 2~, 50/60	3383.140¹⁾	3383.540¹⁾	■	■			591
		230, 50/60	3384.100¹⁾	3384.500¹⁾	■	■			593
		115, 50/60	3384.110¹⁾	3384.510¹⁾	■	■			593
		400, 2~, 50/60	3384.140¹⁾	3384.540¹⁾	■	■			593
		230, 50/60	3385.100¹⁾	3385.500¹⁾	■	■			593
		115, 50/60	3385.110¹⁾	3385.510¹⁾	■	■			593
		400, 2~, 50/60	3385.140¹⁾	3385.540¹⁾	■	■			593
3000 W	796 x 470 x 580	400, 3~, 50 460, 3~, 60	3386.140¹⁾	3386.540¹⁾	■	■			594
4000 W	796 x 470 x 580	400, 3~, 50 460, 3~, 60	3387.140¹⁾	3387.540¹⁾	■	■			594

Roof-mounted cooling units in stainless steel version, see page 61.

To order cooling units with integral electronic condensate evaporation, please add .XX1 to the Model number.

Delivery times available on request.

¹⁾ GOST R (see page 98).

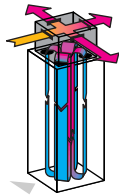


4.1 TopTherm roof-mounted cooling units for the office sector

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1100 W	597 x 415 x 510	115, 50/60	3273.515¹⁾²⁾					592
		230, 50/60	3273.500¹⁾					592

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



4.1 TopTherm roof-mounted cooling units

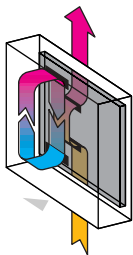
Stainless steel

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
500 W	597 x 415 x 375	230, 50/60	3382.200¹⁾	3382.600¹⁾	■	■			590
		115, 50/60	3382.210¹⁾	3382.610¹⁾	■	■			590
750 W	597 x 415 x 375	230, 50/60	3359.200¹⁾	3359.600¹⁾					590
		115, 50/60	3359.210¹⁾	3359.610¹⁾					590
		400, 2~, 50/60	3359.240¹⁾	3359.640¹⁾					590
1000 W	597 x 415 x 475	230, 50/60	3383.200¹⁾	3383.600¹⁾	■	■			591
		115, 50/60	3383.210¹⁾	3383.610¹⁾	■	■			591
		400, 2~, 50/60	3383.240¹⁾	3383.640¹⁾	■	■			591
1500 W	597 x 415 x 475	230, 50/60	3384.200¹⁾	3384.600¹⁾	■	■			593
		115, 50/60	3384.210¹⁾	3384.610¹⁾	■	■			593
		400, 2~, 50/60	3384.240¹⁾	3384.640¹⁾	■	■			593
2000 W	597 x 415 x 475	230, 50/60	3385.200¹⁾	3385.600¹⁾	■	■			593
		115, 50/60	3385.210¹⁾	3385.610¹⁾	■	■			593
		400, 2~, 50/60	3385.240¹⁾	3385.640¹⁾	■	■			593
3000 W	796 x 470 x 580	400, 3~, 50/60	3386.240¹⁾	3386.640¹⁾	■	■			594
4000 W	796 x 470 x 580	400, 3~, 50/60	3387.240¹⁾	3387.640¹⁾	■	■			594

Delivery times available on request.

To order cooling units with integral electronic condensate evaporation, please add .XX1 to the Model number.

¹⁾ GOST R (see page 98).



4.1 Wall-mounted cooling units

VIP small cooling units

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Condenser design	Model No. SK	Approvals				Cat. 31 page
					UL	CUL	DIN	GS	
225 W	526 x 353.5 x 105	230, 50/60	left	3201.100¹⁾	■	■			595
			right	3202.100¹⁾	■	■			595

¹⁾ GOST R (see page 98).



4.1 TopTherm wall-mounted cooling units

Mini cooling unit, in horizontal format

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
300 W	525 x 340 x 153	230, 50/60	3302.300¹⁾			■		596
		115, 60	3302.310¹⁾			■		596

¹⁾ GOST R (see page 98).



4.1 TopTherm wall-mounted cooling units

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
300 W	280 x 550 x 140	230, 50/60	3302.100¹⁾	—	■	■			597
		115, 60	3302.110¹⁾	—	■	■			597
500 W	280 x 550 x 200	230, 50/60	3303.100¹⁾	3303.500¹⁾	■	■			597
		115, 60	3303.110¹⁾	3303.510¹⁾	■	■			597
750 W	280 x 550 x 280	230, 50/60	3361.100¹⁾	3361.500¹⁾					598
		115, 60	3361.110¹⁾	3361.510¹⁾					598
		400, 2~, 50/60	3361.140¹⁾	3361.540¹⁾					598
1000 W	400 x 950 x 260	230, 50/60	3304.100¹⁾	3304.500¹⁾	■	■			599
		115, 50/60	3304.110¹⁾	3304.510¹⁾	■	■			599
		400, 3~, 50/60, 3~, 60	3304.140¹⁾	3304.540¹⁾	■	■			599
1500 W	400 x 950 x 260	230, 50/60	3305.100¹⁾	3305.500¹⁾	■	■			599
		115, 50/60	3305.110¹⁾	3305.510¹⁾	■	■			599
		400, 3~, 50/60, 3~, 60	3305.140¹⁾	3305.540¹⁾	■	■			599
2000 W	400 x 1580 x 290	230, 50/60	3328.100¹⁾	3328.500¹⁾	■	■			600
		115, 50/60	3328.110¹⁾	3328.510¹⁾	■	■			600
		400, 3~, 50/60, 3~, 60	3328.140¹⁾	3328.540¹⁾	■	■			600
2500 W	400 x 1580 x 290	230, 50/60	3329.100¹⁾	3329.500¹⁾	■	■			600
		115, 50/60	3329.110¹⁾	3329.510¹⁾	■	■			600
		400, 3~, 50/60, 3~, 60	3329.140¹⁾	3329.540¹⁾	■	■			600
4000 W	500 x 1580 x 340	400, 3~, 50/60, 3~, 60	3332.140¹⁾	3332.540¹⁾	■	■			601

To order cooling units with integral electronic condensate evaporation, please add .XX1 to the Model number from series SK 3304.XXX.

¹⁾ GOST R (see page 98).

4.



Stainless steel

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
300 W	280 x 550 x 140	230, 50/60	3302.200¹⁾	—	■	■			597
		115, 60	3302.210¹⁾	—	■	■			597
500 W	280 x 550 x 200	230, 50/60	3303.200¹⁾	3303.600¹⁾	■	■			597
		115, 60	3303.210¹⁾	3303.610¹⁾	■	■			597
750 W	280 x 550 x 280	230, 50/60	3361.200¹⁾	3361.600¹⁾					598
		115, 60	3361.210¹⁾	3361.610¹⁾					598
		400, 2~, 50/60	3361.240¹⁾	3361.640¹⁾					598
1000 W	400 x 950 x 260	230, 50/60	3304.200¹⁾	3304.600¹⁾	■	■			599
		115, 50/60	3304.210¹⁾	3304.610¹⁾	■	■			599
		400, 3~, 50/60, 3~, 60	3304.240¹⁾	3304.640¹⁾	■	■			599
1500 W	400 x 950 x 260	230, 50/60	3305.200¹⁾	3305.600¹⁾	■	■			599
		115, 50/60	3305.210¹⁾	3305.610¹⁾	■	■			599
		400, 3~, 50/60, 3~, 60	3305.240¹⁾	3305.640¹⁾	■	■			599
2000 W	400 x 1580 x 290	230, 50/60	3328.200¹⁾	3328.600¹⁾	■	■			600
		115, 50/60	3328.210¹⁾	3328.610¹⁾	■	■			600
		400, 3~, 50/60, 3~, 60	3328.240¹⁾	3328.640¹⁾	■	■			600
2500 W	400 x 1580 x 290	230, 50/60	3329.200¹⁾	3329.600¹⁾	■	■			600
		115, 50/60	3329.210¹⁾	3329.610¹⁾	■	■			600
		400, 3~, 50/60, 3~, 60	3329.240¹⁾	3329.640¹⁾	■	■			600
4000 W	500 x 1580 x 340	400, 3~, 50/60, 3~, 60	3332.240¹⁾	3332.640¹⁾	■	■			601

Delivery times available on request.

To order cooling units with integral electronic condensate evaporation, please add .XX1 to the Model number from series SK 3304.XXX.

¹⁾ GOST R (see page 98).



4.1 TopTherm wall-mounted cooling units

Slimline

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
1500 W	450 x 1580 x 165	230, 50/60	3377.100²⁾	3377.500²⁾					602
		115, 50/60	3377.110²⁾	3377.510²⁾					602
		400/460, 3~, 50/60	3377.140²⁾	3377.540²⁾					602
1500 W	450 x 1580 x 195	230, 50/60	3366.100¹⁾	3366.500¹⁾					602
		115, 50/60	3366.110¹⁾	3366.510¹⁾					602
		400/460, 3~, 50/60	3366.140¹⁾	3366.540¹⁾					602

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



Slimline, stainless steel

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
1500 W	450 x 1580 x 165	230, 50/60	3377.200	3377.600					602
		115, 50/60	3377.210	3377.610					602
		400/460, 3~, 50/60	3377.240	3377.640					602
1500 W	450 x 1580 x 195	230, 50/60	3366.200¹⁾	3366.600¹⁾					602
		115, 50/60	3366.210¹⁾	3366.610¹⁾					602
		400/460, 3~, 50/60	3366.240¹⁾	3366.640¹⁾					602

Delivery times available on request.

¹⁾ GOST R (see page 98).

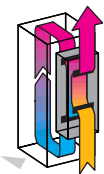


4.1 TopTherm wall-mounted cooling units

Nema 4x design

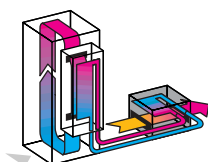
Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
500 W	285 x 620 x 298	230, 50/60	3303.104	3303.504	■	■			603
		115, 50/60	3303.114	3303.514	■	■			603
1000 W	405 x 1020 x 358	230, 50/60	3304.104	3304.504	■	■			603
		115, 50/60	3304.114	3304.514	■	■			603
		400, 3~, 50/60	3304.144	3304.544	■	■			603
1500 W	405 x 1020 x 358	230, 50/60	3305.104	3305.504	■	■			603
		115, 50/60	3305.114	3305.514	■	■			603
		400, 3~, 50/60	3305.144	3305.544	■	■			603
2000 W	405 x 1650 x 368	230, 50/60	3328.104	3328.504	■	■			604
		115, 50/60	3328.114	3328.514	■	■			604
		400, 3~, 50/60	3328.144	3328.544	■	■			604
2500 W	405 x 1650 x 368	230, 50/60	3329.104	3329.504	■	■			604
		115, 50/60	3329.114	3329.514	■	■			604
		400, 3~, 50/60	3329.144	3329.544	■	■			604

Delivery times available on request.



4.2 Recooling systems

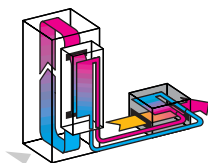
Mini



Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			Roof mounting	Wall mounting	UL	CUL	DIN	GS	
1000 W	400 x 950 x 310	400, 3~, 50/60/ 460, 3~, 60	—	3360.100¹⁾					610
2500 W	400 x 1580 x 290	400, 3~, 50/60/ 460, 3~, 60	—	3360.250¹⁾					610
4000 W	500 x 1580 x 340	400, 3~, 50/60/ 460, 3~, 60	—	3360.400¹⁾					610
960 W	600 x 400 x 430	230, 50/60	3318.600¹⁾	—					608
			3318.610¹⁾	—					608
1490 W	600 x 400 x 430	230, 50/60	3319.600¹⁾	—					608
			3319.610¹⁾	—					608
3000 W	602 x 676 x 635	400, 3~, 50/60/ 460, 3~, 60	3320.600¹⁾	—					609
4500 W	602 x 676 x 635	400, 3~, 50/60/ 460, 3~, 60	3334.600¹⁾	—					609

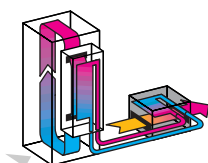
¹⁾ GOST R (see page 98).

in a floor standing enclosure



Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
2100 W	470 x 725 x 540	400, 3~, 50	3336.100					611
2580 W	485 x 965 x 650	400, 3~, 50	3336.200					611
3360 W	485 x 965 x 650	400, 3~, 50	3336.300					611
5040 W	595 x 1180 x 800	400, 3~, 50	3336.500					611
6160 W	595 x 1180 x 800	400, 3~, 50	3336.600					611
7700 W	595 x 1180 x 800	400, 3~, 50	3336.650					611
10000 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3336.700					612
14350 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3336.710					612
16300 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3336.720					612
18500 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3336.730					612
20900 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3336.740					612
25200 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3336.750					612

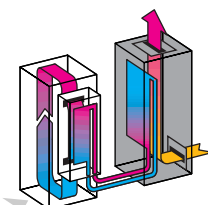
Delivery times available on request.



4.2 Recooling systems in a floor standing enclosure for oil

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
2550 W	485 x 965 x 650	400, 3~, 50	3337.200					613
3400 W	485 x 965 x 650	400, 3~, 50	3337.300					613
5150 W	595 x 1180 x 800	400, 3~, 50	3337.500					613
6700 W	595 x 1180 x 800	400, 3~, 50	3337.600					613
7900 W	595 x 1180 x 800	400, 3~, 50	3337.650					613
10600 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3337.700					614
15150 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3337.710					614
17200 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3337.720					614
19250 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3337.730					614
21600 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3337.740					614
26100 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3337.750					614

Delivery times available on request.



in the TS 8 Top enclosure system

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
6000 W	600 x 2000 x 600	400, 3~, 50	3335.060					615
7500 W	600 x 2000 x 600	400, 3~, 50	3335.075					615
10000 W	800 x 2000 x 600	400, 3~, 50	3335.100					616
12000 W	800 x 2000 x 600	400, 3~, 50	3335.120					616
15000 W	800 x 2000 x 600	400, 3~, 50	3335.150					616
20000 W	1200 x 2000 x 600	400, 3~, 50	3335.200					616
25000 W	1200 x 2000 x 600	400, 3~, 50	3335.250					616

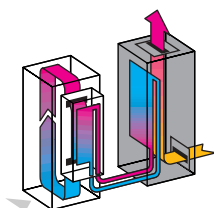
Delivery times available on request.



4.2 Recooling systems in an industrial enclosure

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
32025 W	815 x 1400 x 1560	400, 3~, 50 460, 3~, 60	3339.100					617
36225 W	815 x 1400 x 1560	400, 3~, 50 460, 3~, 60	3339.200					617
46750 W	1000 x 1800 x 2000	400, 3~, 50	3339.250					617
59000 W	1000 x 1800 x 2000	400, 3~, 50	3339.280					617
66700 W	1550 x 2000 x 2500	400, 3~, 50	3339.300					617
75900 W	1550 x 2000 x 2500	400, 3~, 50	3339.400					617
110000 W	1550 x 2000 x 3400	400, 3~, 50	3339.450					617
172200 W	1630 x 2200 x 3400	400, 3~, 50	3339.500					617

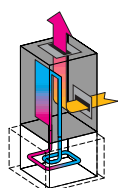
Delivery times available on request.

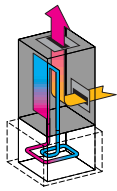


4.2 Immersible recooling systems for oil

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
2400 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.020					618
3200 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.040					618
4600 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.060					618
5600 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.080					618
8500 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.100					619
10500 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.120					619
12000 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.140					619
13600 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.160					619
15300 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.180					619
17300 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.200					619
20700 W	785 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.220					620
30800 W	785 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.240					620
34900 W	785 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.260					620
44500 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.280					620
48600 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.300					620
60600 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.320					620
72600 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.340					620
77900 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.360					620

Delivery times available on request.





4.2 Immersible recooling systems for emulsion

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
2400 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.500					621
3200 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.520					621
4600 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.540					621
5600 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.560					621
8500 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.580					622
10500 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.600					622
12000 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.620					622
13600 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.640					622
15300 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.660					622
17300 W	785 x 1650 x 785	400, 3~, 50 460, 3~, 60	3338.680					622
20700 W	785 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.700					623
30800 W	785 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.720					623
34900 W	785 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.740					623
44500 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.760					623
48600 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.780					623
60600 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.800					623
72600 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.820					623
77900 W	1830 x 1650 x 1830	400, 3~, 50 460, 3~, 60	3338.840					623

Delivery times available on request.



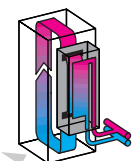
4.3 Air/water heat exchangers

Micro, for wall mounting

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
300 W	150 x 300 x 85	230, 50/60	3212.230¹⁾					626
		115, 50/60	3212.115¹⁾²⁾					626
		24 V (DC)	3212.024¹⁾					626

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



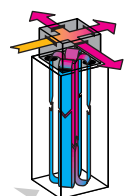
4.3 Air/water heat exchangers

Wall-mounted

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			Wall-mounted		UL	CUL	DIN	GS	
600 W	200 x 500 x 100	230, 50/60	3214.100¹⁾						627
1000 W	298 x 520 x 135	230, 50/60	3217.100¹⁾		■	■			627
1250 W	200 x 950 x 100	230, 50/60	3215.100¹⁾						628
1540 W	380 x 825 x 105	230, 50/60	3247.000¹⁾		■	■			628
2250 W	400 x 950 x 200	230, 50/60	3218.104¹⁾²⁾						629
3000 W	400 x 950 x 200	230, 50/60	3218.100¹⁾		■	■			629
4500 W	450 x 1400 x 250	230, 50/60	3216.100¹⁾		■	■			629
7000 W	450 x 1800 x 300	400, 3~, 50/60 480, 3~, 60	3216.480¹⁾						629

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



4.3 TopTherm air/water heat exchangers

Roof-mounted

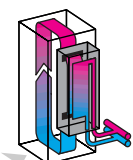
Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				Cat. 31 page
			With Basic controller	With Comfort controller	UL	CUL	DIN	GS	
1875 W ³⁾	597 x 415 x 475	230, 50/60	3209.104¹⁾²⁾	3209.504¹⁾²⁾					630
		115, 50/60	3209.114¹⁾²⁾	3209.514¹⁾²⁾					630
		400, 2~, 50/60	3209.144¹⁾²⁾	3209.544¹⁾²⁾					630
2500 W ⁴⁾	597 x 415 x 475	230, 50/60	3209.100¹⁾	3209.500¹⁾					630
		115, 50/60	3209.110¹⁾	3209.510¹⁾					630
		400, 2~, 50/60	3209.140¹⁾²⁾	3209.540¹⁾²⁾					630
3000 W ³⁾	597 x 415 x 475	230, 50/60	3210.104¹⁾²⁾	3210.504¹⁾²⁾					631
		115, 50/60	3210.114¹⁾²⁾	3210.514¹⁾²⁾					631
		400, 2~, 50/60	3210.144¹⁾²⁾	3210.544¹⁾²⁾					631
4000 W ⁴⁾	597 x 415 x 475	230, 50/60	3210.100¹⁾	3210.500¹⁾					631
		115, 50/60	3210.110¹⁾	3210.510¹⁾					631
		400, 2~, 50/60	3210.140¹⁾²⁾	3210.540¹⁾²⁾					631

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.

³⁾ All water-carrying parts made from stainless steel V4A (1.4571).

⁴⁾ All water-carrying parts made from CuAl.



4.3 Air/water heat exchangers

as a side panel for TS 8 enclosures

Useful cooling output	To fit enclosures H x D mm	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
					UL	CUL	DIN	GS	
700 W	1800 x 600	600 x 1800 x 95	230, 50/60	3316.180¹⁾					632
700 W	2000 x 600	600 x 2000 x 95	230, 50/60	3316.200¹⁾					632

¹⁾ GOST R (see page 98).

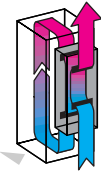


4.3 TopTherm air/air heat exchangers

Wall-mounted

Specific thermal output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
12.0 W/K	200 x 400 x 146	230, 50/60	3125.800					–
17.5 W/K	280 x 550 x 150	230, 50/60	3126.100¹⁾	■	■			633
30.0 W/K	400 x 950 x 205	230, 50/60	3127.100¹⁾	■	■			633
45.0 W/K	400 x 950 x 225	230, 50/60	3128.100¹⁾	■	■			633
60.0 W/K	400 x 950 x 225	230, 50/60	3129.100¹⁾	■	■			633
62.0 W/K	400 x 1360 x 110	230, 50/60	3129.800					–
90.0 W/K	400 x 1580 x 215	230, 50/60	3130.100¹⁾	■	■			634

¹⁾ GOST R (see page 98).

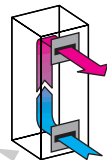


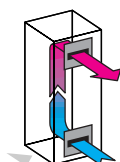
4.4 Fan-and-filter units

Air throughput, unimpeded air flow	Voltage V, Hz	Model No. SK RAL 7035	Approvals					Cat. 31 page
			UL	CUL	DIN	GS	CSA	
20/25 m³/h	230, 50/60	3321.107¹⁾	■	■				636
	115, 50/60	3321.117¹⁾	■	■				636
20 m³/h	24 (DC)	3321.027¹⁾	■	■				636
	48 (DC)	3321.047¹⁾²⁾	■	■				636
55/66 m³/h	230, 50/60	3322.107¹⁾	■	■			■	636
	115, 50/60	3322.117¹⁾	■	■			■	636
55 m³/h	24 (DC)	3322.027¹⁾	■	■				636
	48 (DC)	3322.047¹⁾²⁾	■	■				636
105/120 m³/h	230, 50/60	3323.107¹⁾	■	■			■	637
	115, 50/60	3323.117¹⁾	■	■			■	637
105 m³/h	24 (DC)	3323.027¹⁾	■	■			■	637
	48 (DC)	3323.047¹⁾²⁾	■	■				637
180/160 m³/h	230, 50/60	3324.107¹⁾	■	■			■	637
	115, 50/60	3324.117¹⁾	■	■			■	637
180 m³/h	24 (DC)	3324.027¹⁾	■	■			■	637
	48 (DC)	3324.047¹⁾²⁾	■	■				637
230/265 m³/h	230, 50/60	3325.107¹⁾	■	■			■	638
	115, 50/60	3325.117¹⁾	■	■			■	638
230 m³/h	24 (DC)	3325.027¹⁾	■	■			■	638
	48 (DC)	3325.047¹⁾²⁾	■	■				638
550/600 m³/h	230, 50/60	3326.107¹⁾	■	■			■	639
	115, 50/60	3326.117¹⁾	■	■			■	639
700/720 m³/h	230, 50/60	3327.107¹⁾	■	■				639
	115, 50/60	3327.117¹⁾	■	■				639
	400/460, 3~, 50/60	3327.147¹⁾	■	■				639

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



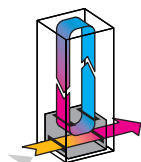


4.4 Fan-and-filter unit – EMC

Air throughput, unimpeded air flow	Voltage V, Hz	Model No. SK RAL 7035	Approvals					Cat. 31 page
			UL	CUL	DIN	GS	CSA	
20/25 m³/h	230, 50/60	3321.607¹⁾	■	■				640
	115, 50/60	3321.617¹⁾²⁾	■	■				640
55/66 m³/h	230, 50/60	3322.607¹⁾	■	■				640
	115, 50/60	3322.617¹⁾²⁾	■	■				640
105/120 m³/h	230, 50/60	3323.607¹⁾	■	■				640
	115, 50/60	3323.617¹⁾²⁾	■	■				640
180/160 m³/h	230, 50/60	3324.607¹⁾	■	■				641
	115, 50/60	3324.617¹⁾²⁾	■	■				641
230/265 m³/h	230, 50/60	3325.607¹⁾	■	■				641
	115, 50/60	3325.617¹⁾	■	■				641
550/600 m³/h	230, 50/60	3326.607¹⁾	■	■				641
	115, 50/60	3326.617¹⁾²⁾	■	■				641
700/720 m³/h	230, 50/60	3327.607¹⁾	■	■				641
	115, 50/60	3327.617¹⁾²⁾	■	■				641

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.

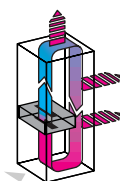


4.5 Rack-mounted cooling units

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1000 W	445 x 265.9 x 542	115, 50/60	3278.134¹⁾²⁾					644
		230, 50/60	3292.134¹⁾					644

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.

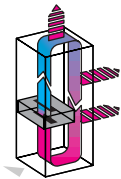


4.5 Rack-mounted fan

Air throughput, unimpeded air flow	No. of fans	Distance between axes mm	Voltage V, Hz	Model No. SK	Approvals					Cat. 31 page
					UL	CUL	DIN	GS	VDE	
250 m³/h	3	85	36 (DC) – 72 (DC)	9769.002¹⁾²⁾						645
320 m³/h	2	85	24 (DC)	3340.024¹⁾²⁾	■	■			■	645
	2	85	115 (AC), 50/60	3340.115¹⁾²⁾	■	■			■	645
	2	85	230 (AC), 50/60	3340.230¹⁾	■	■			■	645
	3	85	24 (DC)	3341.024¹⁾²⁾	■	■			■	645
480 m³/h	3	105	24 (DC)	3342.024¹⁾	■	■			■	645
	3	85	115 (AC), 50/60	3341.115¹⁾	■	■			■	645
	3	105	115 (AC), 50/60	3342.115¹⁾²⁾	■	■			■	645
	3	85	230 (AC), 50/60	3341.230¹⁾	■	■			■	645
	3	105	230 (AC), 50/60	3342.230¹⁾	■	■			■	645
	3	105	24 (DC)	3342.500¹⁾	■	■			■	645
			115 – 230 (AC), 50/60							
	3	105	115 – 230 (AC), 50/60	3342.500¹⁾	■	■			■	645

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.

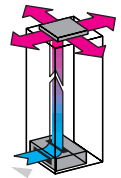


4.5 Vario rack-mounted fan

Air throughput, unimpeded air flow	No. of fans	Distance between axes mm	Voltage V, Hz	Model No. SK	Approvals					Cat. 31 page
					UL	CUL	DIN	GS	VDE	
320 m³/h	2	85	24 (DC)	3350.024 ¹⁾²⁾	■	■			■	645
	2	85	115 (AC), 50/60	3350.115 ¹⁾²⁾	■	■			■	645
	2	85	230 (AC), 50/60	3350.230 ¹⁾	■	■			■	645
480 m³/h	3	85	24 (DC)	3351.024 ¹⁾²⁾	■	■			■	645
	3	105	24 (DC)	3352.024 ¹⁾²⁾	■	■			■	645
	3	85	115 (AC), 50/60	3351.115 ¹⁾²⁾	■	■			■	645
	3	105	115 (AC), 50/60	3352.115 ¹⁾²⁾	■	■			■	645
	3	85	230 (AC), 50/60	3351.230 ¹⁾	■	■			■	645
	3	105	230 (AC), 50/60	3352.230 ¹⁾	■	■			■	645
	3	105	24 (DC) 115 – 230 (AC), 50/60	3352.500 ¹⁾²⁾	■	■			■	645

¹⁾ GOST R (see page 98).

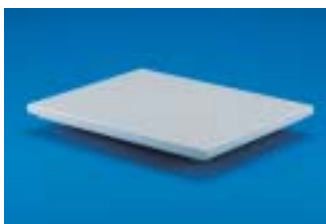
²⁾ Delivery times available on request.



4.5 Centrifugal fan

Air throughput, unimpeded air flow	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
320 m³/h	482.6 x 87.2 x 158	115, 50/60	3145.000 ¹⁾					646
		230, 50/60	3144.000 ¹⁾					646

¹⁾ GOST R (see page 98).



4.5 Roof-mounted fan and vent attachment for TS 8

Air throughput, unimpeded air flow	Voltage V, Hz	Required mounting cut-out W x D mm	Model No. SK	Approvals					Cat. 31 page
				UL	CUL	DIN	GS	CSA	
400 m³/h	115, 50/60	475 x 260	3149.410 ¹⁾						647
	230, 50/60	475 x 260	3149.420 ¹⁾						647
	400, 3~, 50/60 460, 3~, 60	475 x 260	3149.440 ¹⁾						647
800 m³/h	115, 50/60	475 x 260	3149.810 ¹⁾						647
	230, 50/60	475 x 260	3149.820 ¹⁾						647
	400, 3~, 50/60 460, 3~, 60	475 x 260	3149.840 ¹⁾						647
Without motor		490 x 390	8801.380 ¹⁾						647

¹⁾ GOST R (see page 98).



4.5 Roof-mounted fans

Air throughput, unimpeded air flow	Voltage V, Hz	Required mounting cut-out W x D mm	Model No. SK	Approvals					Cat. 31 page
				UL	CUL	DIN	GS	CSA	
360 m³/h	230, 50/60	345 x 265	3149.007 ¹⁾						647
	115, 50/60	345 x 265	3169.007 ¹⁾						647
Without fan motor		345 x 265	3148.007 ¹⁾						647

¹⁾ GOST R (see page 98).



4.5 Roof-mounted fans for TS/FR(i) for the office sector

Air throughput, unimpeded air flow	Voltage V, Hz	Version		Dimensions W x H x D mm	Model No. SK	Approvals					Cat. 31 page
		With roof plate	Without roof plate			UL	CUL	DIN	GS	CSA	
1500 m³/h	115, 50/60	■		800 x 240 x 800	3164.610¹⁾						648
	230, 50/60	■		800 x 240 x 800	3164.620¹⁾						648
1500 m³/h	115, 50/60	■		800 x 240 x 900	3164.810¹⁾						648
	230, 50/60	■		800 x 240 x 900	3164.820¹⁾						648
1500 m³/h	115, 50/60		■	511 x 227 x 511	3164.115¹⁾						648
	230, 50/60		■	511 x 227 x 511	3164.230¹⁾						648

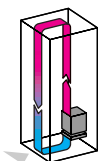
¹⁾ GOST R (see page 98).



4.6 Enclosure heaters

Continuous thermal output for T _u = 20°C	Voltage V, Hz	Model No. SK	Approvals					Cat. 31 page
			UL	CUL	DIN	GS	VDE	
10 W	110 – 240 (AC/DC)	3105.000¹⁾	■	■			■	655
20 W	110 – 240 (AC/DC)	3106.000¹⁾	■	■			■	655
30 W	110 – 240 (AC/DC)	3115.000¹⁾	■	■			■	655
50 W	110 – 240 (AC/DC)	3116.000¹⁾	■	■			■	655
130 W	110 – 240 (AC/DC)	3107.000¹⁾ + 3108.000¹⁾	■	■			■	655
300 W	230, 50/60	3102.000¹⁾ (incl. fan)	■	■			■	655

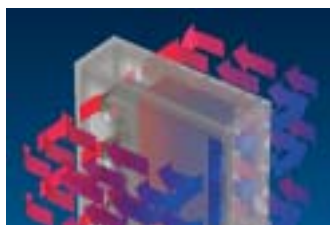
¹⁾ GOST R (see page 98).



4.6 Enclosure heaters for CS outdoor enclosures

Continuous thermal output for T _u = 20°C	Voltage V, Hz	Internal mounting		Dimensions W x H x D mm	Model No. CS	Approvals					Cat. 31 page
		in the enclosure	19° mounting angles			UL	CUL	DIN	GS	VDE	
1000 W	230, 50/60	■	–	325 x 82 x 220	9769.015¹⁾	■	■				656
600 W	230, 50/60	–	■	482.6 x 87.2 x 236	9769.023¹⁾						656

¹⁾ GOST R (see page 98).



4.8 Liquid cooling package

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
Enclosure + 3 modules								
4000 W	300 x 2000 x 1000	230, 50/60	3301.230 ¹⁾					672
4000 W	300 x 2000 x 1000	115, 50/60	3301.210					672
Cooling module, single								
4000 W	250 x 550 x 950	230, 50/60	3301.250 ¹⁾					672

¹⁾ GOST R (see page 98).



4.8 Rack-mounted recooling system

Specific thermal output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				Cat. 31 page
				UL	CUL	DIN	GS	
1000 W	442 x 175 x 751	230, 50/60	3301.260					673

Delivery times available on request.



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- Server racks
- Monitoring
- Kiosks
- Telecom



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5.1 Networking

Network enclosures based on TE 7000

Dimensions in mm				U	Model No. TE, RAL 7035		Cat. 31 page
Width	Height	Depth	Distance between 19" levels as delivered		Side panels		
					with	without	
600	600	600	495	11	7000.390 ¹⁾	—	682
600	600	800	495	11	7000.410 ¹⁾	—	682
600	1200	600	495	24	7000.430 ¹⁾	—	682
600	1200	800	495	24	7000.440 ¹⁾	—	682
600	2000	600	495	42	7000.500 ¹⁾³⁾	7000.502 ¹⁾	682
600	2000	800	495	42	7000.510 ¹⁾⁴⁾	—	682
600	2200	600	495	47	7000.560 ¹⁾	7000.562 ¹⁾	682
600	2200	800	495	47	7000.570 ¹⁾	—	682
800	1200	600	495	24	7000.450 ¹⁾	—	685
800	1200	800	495	24	7000.460 ¹⁾²⁾	—	685
800	2000	600	495	42	7000.520 ¹⁾⁵⁾	—	685
800	2000	800	495	42	7000.530 ¹⁾²⁾⁶⁾	7000.532 ¹⁾²⁾	685
800	2200	600	495	47	7000.580 ¹⁾	—	685
800	2200	800	495	47	7000.590 ¹⁾	7000.592 ¹⁾	685

¹⁾ GOST R (see page 98).

²⁾ Model No. TE preconfigured with base/plinth, earthing and accessory kit: Height 1200 mm: 7000.840, Height 2000 mm: with side panel 7000.850, without side panel 7000.852.

³⁾ Model No. TE in RAL 9005: 7000.505. ⁴⁾ Model No. TE in RAL 9005: 7000.515.

⁵⁾ Model No. TE in RAL 9005: 7000.525. ⁶⁾ Model No. TE in RAL 9005: 7000.535.



Network enclosures, based on Rittal TS 8, pre-configured

Dimensions mm			U	Model No. DK		Cat. 31 page
Width	Height	Depth		Side panels		
				with	without	
Enclosure type V1						
600	1200 + 100	600	24	7830.100¹⁾	–	687
Enclosure type V2						
800	1800 + 100	800	38	7830.800¹⁾	7830.850¹⁾	687
800	2000 + 100	800	42	7830.200¹⁾	7830.250¹⁾	687
800	2200 + 100	800	47	7830.220¹⁾	7830.270¹⁾	687
Enclosure type V3						
800	1200 + 100	900	24	7830.120¹⁾	–	689
800	2000 + 100	900	42	7830.300¹⁾	7830.350¹⁾	689
800	2000 + 100	1000	42	7830.330¹⁾	7830.335¹⁾	689
800	2200 + 100	900	47	7830.320¹⁾	7830.370¹⁾	689
800	2200 + 100	1000	47	7830.340¹⁾	7830.380¹⁾	689
Enclosure type V4						
800	2000 + 100	800	42	7830.400¹⁾	–	691
Enclosure type V5						
800	2000 + 100 + 25	800	42	7830.500¹⁾	7830.550¹⁾	691
Enclosure type V6						
800	2000 + 100 + 25	800	40	7830.660¹⁾	7830.670¹⁾	691

¹⁾ GOST R (see page 98).



5.1 Networking

Network enclosures, based on Rittal TS 8, types 1 and 2

Dimensions mm			U	Model No. DK		Cat. 31 page
Width	Height	Depth		Type 1	Type 2	
600	800	600	15	7820.100 ¹⁾	7821.100 ¹⁾	693
600	1000	600	20	7820.200 ¹⁾	7821.200 ¹⁾	693
800	1000	600	20	7820.240 ¹⁾	7821.240 ¹⁾	693
600	1200	600	24	7820.300 ¹⁾	7821.300 ¹⁾	693
800	1200	600	24	7820.340 ¹⁾	7821.340 ¹⁾	693
800	1200	800	24	7820.350 ¹⁾	—	693
800	1200	900	24	7820.355 ¹⁾	7821.355 ¹⁾	693
800	1200	1000	24	7820.360 ¹⁾	—	693
600	1400	600	29	7820.400 ¹⁾	7821.400 ¹⁾	693
600	1400	800	29	7820.410 ¹⁾	7821.410 ¹⁾	693
800	1400	600	29	7820.440 ¹⁾	7821.440 ¹⁾	693
600	1600	600	33	7820.500 ¹⁾	7821.500 ¹⁾	693
600	1600	800	33	7820.510 ¹⁾	7821.510 ¹⁾	693
800	1600	600	33	7820.540 ¹⁾	7821.540 ¹⁾	693
600	1800	600	38	7820.600 ¹⁾	7821.600 ¹⁾	693
600	1800	800	38	7820.610 ¹⁾	7821.610 ¹⁾	693
600	1800	900	38	7820.620 ¹⁾	7821.620 ¹⁾	694
800	1800	600	38	7820.640 ¹⁾	7821.640 ¹⁾	694
800	1800	800	38	7820.650 ¹⁾	7821.650 ¹⁾	694
800	1800	1000	38	7820.670 ¹⁾	7821.670 ¹⁾	694
600	2000	600	42	7820.700 ¹⁾	7821.700 ¹⁾	694
600	2000	800	42	7820.710 ¹⁾	7821.710 ¹⁾	694
800	2000	600	42	7820.740 ¹⁾	7821.740 ¹⁾	694
800	2000	800	42	7820.750 ¹⁾	7821.750 ¹⁾	694
800	2000	900	42	7820.760 ¹⁾	7821.760 ¹⁾	694
800	2000	1000	42	7820.770 ¹⁾	7821.770 ¹⁾	694
600	2200	600	47	7820.800 ¹⁾	7821.800 ¹⁾	694
600	2200	800	47	7820.810 ¹⁾	7821.810 ¹⁾	694
800	2200	600	47	7820.840 ¹⁾	7821.840 ¹⁾	694
800	2200	800	47	7820.850 ¹⁾	7821.850 ¹⁾	694
800	2200	900	47	7820.860 ¹⁾	7821.860 ¹⁾	694
800	2200	1000	47	7820.870 ¹⁾	7821.870 ¹⁾	694

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



Network enclosures based on Rittal flexRack(i), pre-configured

Dimensions mm			U	Model No. FR(i)		Cat. 31 page
Width	Height	Depth ²⁾		Side panels		
				with	without	
600	600	805	11	7855.480¹⁾	—	703
600	600	1005	11	7855.500¹⁾	—	703
600	1200	1005	25	7855.510¹⁾	—	703
800	2000 + 100	805	42	7855.550¹⁾	7855.540¹⁾	703
800	2000 + 100	1005	42	7855.570¹⁾	7855.560	703

¹⁾ GOST R (see page 98).

²⁾ Nominal size excluding lock system.



5.1 Networking

Network enclosures based on Rittal flexRack(i)

Dimensions mm			U	Model No. FR(i)	Cat. 31 page
Width	Height	Depth ²⁾			
600	600	605	11	7855.610	705
600	600	1005	11	7855.620	705
600	1200	605	24	7855.630	705
600	1200	1005	24	7855.640	705
600	1800	605	38	7855.650	705
600	2000	605	42	7855.660	705
600	2000	1005	42	7855.670	705
600	2200	1005	47	7855.680	705
800	1200	805	24	7855.690	705
800	1800	805	38	7855.700	705
800	2000	805	42	7855.710¹⁾	705
800	2000	1005	42	7855.720¹⁾	705
800	2200	805	47	7855.730	705
800	2200	1005	47	7855.740¹⁾	705

¹⁾ GOST R (see page 98).

²⁾ Nominal size excluding lock systems.



Distributor racks based on Rittal Data Rack

Dimensions mm			U	Model No. DK	Cat. 31 page
Width	Height	Depth			
550	1499.5	750	31	7391.000	708
550	1721.8	750	36	7396.000	708
550	1899.5	750	40	7400.000	708
550	2121.8	750	45	7445.000	708



Mobile workstation, Rittal RiLab

Dimensions mm			Model No. DK	Cat. 31 page
Width	Height	Depth		
Type 1				
714	820	625	7600.100	711
Type 2				
714	1108	625	7600.200	711
Type 3				
714	1428	625	7600.300	711

Approvals:

- TÜV safety tested



5.2 Networking

RNC enclosure

Dimensions mm			U	Mounting position	Model No. DK	Cat. 31 page
Width	Height	Depth				
342	255	280	4	horizontal	7870.100	716
342	390	280	8	horizontal	7870.200	716
342	490	400	6	vertical	7870.300	716



RNC universal enclosure

Dimensions mm			U 1/2 19"	U 19"	Model No. DK	Cat. 31 page
Width	Height	Depth				
350	500	350	10	5	7870.350	717



Wall-mounted enclosure, based on Rittal QuickBox, 6 – 21 U

Dimensions mm			U/SU	Model No. DK		Cat. 31 page
Width	Height	Depth		With glazed door	With sheet steel door	
600	362	300	6/10	7502.013¹⁾	—	718
600	362	400	6/10	7502.014¹⁾	7502.114¹⁾	718
600	362	600	6/10	7502.016¹⁾	—	718
600	495	300	9/15	7502.023¹⁾	7502.123¹⁾	718
600	495	400	9/15	7502.024¹⁾	7502.124¹⁾	718
600	495	600	9/15	7502.026¹⁾	7502.126¹⁾	718
600	628	400	12/20	7502.034¹⁾	7502.134	718
600	628	500	12/20	7502.035¹⁾	—	718
600	628	600	12/20	7502.036¹⁾	7502.126¹⁾	718
600	762	400	15/26	7502.044¹⁾	7502.144¹⁾	719
600	762	500	15/26	7502.045¹⁾	—	719
600	762	600	15/26	7502.046¹⁾	7502.146¹⁾	719
600	895	400	18/31	7502.054¹⁾	—	719
600	895	500	18/31	7502.055¹⁾	—	719
600	895	600	18/31	7502.056¹⁾	—	719
600	1028	400	21/36	7502.064¹⁾	—	719
600	1028	600	21/36	7502.066¹⁾	7502.166¹⁾	719

¹⁾ GOST R (see page 98).



5.2 Networking

Wall-mounted enclosure, based on Rittal QuickBox with vertical 482.6 mm (19") level

Dimensions mm			U vertical	Model No. DK	Cat. 31 page
Width	Height	Depth			
600	631	210	3	7502.630¹⁾	720
600	631	360	6	7502.660¹⁾	720

¹⁾ GOST R (see page 98).



Wall-mounted enclosure, based on Rittal AE, with pull-out frame

Dimensions mm			U sides, vertical	U front	Model No. DK	Cat. 31 page
Width	Height	Depth				
600	600	350	4	10	7644.000¹⁾	721

¹⁾ GOST R (see page 98).



Wall-mounted enclosure, based on Rittal AE

Dimensions mm			U	Model No. DK	Cat. 31 page
Width	Height	Depth			
600	380	350	8	7641.000¹⁾	722
600	600	350	13	7643.000¹⁾	722
600	760	350	16	7645.000¹⁾	722

¹⁾ GOST R (see page 98).

Approvals:

- UL
- CSA
- Lloyds Register of Shipping



Office distributor, 2 and 4 U, for fibre-optic and copper cables

Dimensions mm			U	Model No. DK	Cat. 31 page
Width	Height	Depth			
400	504	106	2	7245.000¹⁾	723
400	504	195	4	7245.400¹⁾	723

¹⁾ GOST R (see page 98).



Small fibre-optic distributors

Dimensions mm			Number of fibres	Model No. DK	Cat. 31 page
Width	Height	Depth			
500	500	120	1 – 48	7452.035¹⁾	724
500	900	120	1 – 96	7453.035¹⁾	724

¹⁾ GOST R (see page 98).



5.2 Networking

Small fibre-optic distributors, based on Rittal AE

Dimensions mm			Number of fibres	Model No. DK	Cat. 31 page
Width	Height	Depth			
400	500	155	1 – 48	7454.000¹⁾	725

¹⁾ GOST R (see page 98).



Fibre-optic marshalling enclosure

Dimensions mm			Number of fibres	Model No. DK	Cat. 31 page
Width	Height	Depth			
400	250	120	1 – 24	7247.000¹⁾	726

¹⁾ GOST R (see page 98).



Small fibre-optic distributor, polycarbonate

Dimensions mm			Number of fibres	Model No. DK	Cat. 31 page
Width	Height	Depth			
180	254	90	1 – 24	7451.000¹⁾	727

¹⁾ GOST R (see page 98).



Wall-mounted enclosure, based on Rittal EL, 3-part, pre-configured, depth 573

Dimensions mm			U	Model No. DK		Cat. 31 page
Width	Height	Depth		With glazed door	With slotted metal door ²⁾	
600	478	572.5	9	7709.735¹⁾	7709.835¹⁾	728
600	746	572.5	15	7715.735¹⁾	7715.835¹⁾	728
600	1012	572.5	21	7721.735¹⁾	7721.835¹⁾	728

¹⁾ GOST R (see page 98).

²⁾ Extended delivery times.

Additional features of the pre-configured wall-mounted enclosure:

Earth rail with star earthing, one outlet filter on both the left and right, 4 wall mounting brackets.

Approvals (for glazed doors only):

- UL
- C-UL



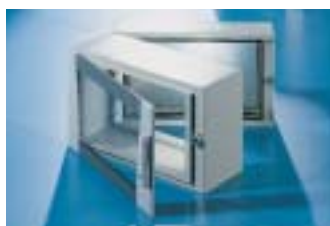
Wall-mounted enclosure, based on Rittal EL, 3-part, with punched rails, depth 473

Dimensions mm			U	Model No. DK	Cat. 31 page
Width	Height	Depth			
600	345	472.5	6	7706.135¹⁾	729
600	478	472.5	9	7709.135¹⁾	729
600	612	472.5	12	7712.135¹⁾	729
600	746	472.5	15	7715.135¹⁾	729
600	878	472.5	18	7718.135¹⁾	729
600	1012	472.5	21	7721.135¹⁾	729

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



5.2 Networking

Wall-mounted enclosure, based on Rittal EL, 3-part, with mounting plate, depth 373 and 473

Dimensions mm		U	Model No. DK	Cat. 31 page	Model No. DK	Cat. 31 page
Width	Height		Depth 373 mm		Depth 473 mm	
600	212	3	2243.605¹⁾	730	2253.605¹⁾	731
600	345	6	2246.605¹⁾	730	2256.605¹⁾	731
600	478	9	2249.605¹⁾	730	2259.605¹⁾	731
600	612	12	2252.605¹⁾	730	2262.605¹⁾	731
600	746	15	2255.605¹⁾	730	2265.605¹⁾	731
600	878	18	2258.605¹⁾	730	2268.605¹⁾	731
600	1012	21	2261.605¹⁾	730	2271.605¹⁾	731

¹⁾ GOST R (see page 98).

Approvals:

- UL
- C-UL



Wall-mounted enclosure, based on Rittal EL, 2-part, depth 369

Dimensions mm			U	Model No. EL	Cat. 31 page
Width	Height	Depth			
600	380	369	6	1919.500¹⁾	732
600	600	369	11	1920.500¹⁾	732
600	760	369	14	1926.500¹⁾	732

¹⁾ GOST R (see page 98).

Approvals:

- TÜV
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- VDE



5.3 Server racks

Based on Rittal TS 8, pre-configured

Dimensions mm			U	Model No. DK		Cat. 31 page
Width	Height	Depth		RAL 7035	RAL 9005	
600	1200	900	24	7831.431¹⁾	7831.432¹⁾	737
600	1200	1000	24	7831.433¹⁾	7831.434¹⁾	737
600	2000	900	42	7831.436¹⁾	7831.437¹⁾	737
600	2000	1000	42	7831.438¹⁾	7831.439¹⁾	737
600	2200	900	47	7831.440¹⁾	7831.441¹⁾	737
600	2200	1000	47	7831.442¹⁾	7831.443¹⁾	737
800	2000	1000	42	7831.446¹⁾	—	737

¹⁾ GOST R (see page 98).



Based on Rittal TS 8, pre-configured, multi-door

Dimensions mm			U	SU	Number of front and rear doors	Model No. DK		Cat. 31 page
Width	Height	Depth				RAL 7035	RAL 9005	
600	2200	900	2 x 21	2 x 37	2	7831.450¹⁾	7831.451¹⁾	737
600	2200	900	2 x 21	2 x 37	2 (vertically divided)	7831.457¹⁾	7831.458¹⁾	737
600	2200	900	4 x 10	4 x 17	4	7831.460¹⁾	7831.461¹⁾	737

¹⁾ GOST R (see page 98).



5.3 Server racks

Based on Rittal flexRack(i), pre-configured

Dimensions mm			U	Model No. FR(i)	Cat. 31 page
Width	Height	Depth ²⁾			
600	1200	1000	24	7855.310¹⁾	738
600	2000	1000	42	7855.330¹⁾	738
600	1200	1200	24	7855.312¹⁾	738
600	2000	1200	42	7855.332¹⁾	738

¹⁾ GOST R (see page 98).

²⁾ Nominal size excluding lock systems.



5.3 Server racks

Based on Rittal TE 7000

Dimensions mm			U	Model No. TE		Cat. 31 page
Width	Height	Depth		RAL 7035	RAL 9005	
600	2000	1000	42	7000.882	—	736
600	2000	1000	42	—	7000.885	736
800	2000	1000	42	7000.892	—	736
800	2000	1000	42	—	7000.895	736



Monitor/keyboard unit, 1 U

		15"		17"		Cat. 31 page
		RAL 7035/ RAL 9006	RAL 9005/ RAL 9006	RAL 7035/ RAL 9006	RAL 9005/ RAL 9006	
Touchpad	German	9050.100	9050.200	9050.300	9050.400²⁾	739
	English	9050.102¹⁾	9050.202	9050.302¹⁾²⁾	9050.402²⁾	739
	French	9050.103²⁾	9050.203²⁾	9050.303²⁾	9050.403²⁾	739
Trackball	German	9050.150	9050.250	9050.350	9050.450	739
	International	9050.151³⁾	9050.251³⁾	9050.351³⁾	9050.451³⁾	739

¹⁾ GOST R (see page 98).

²⁾ Extended delivery times.

³⁾ International version only available with trackball, without number pad.



Rittal SSC view 8/SSC view 32 Cat for monitor/keyboard unit, 1 U

Dimensions			No. of channels	Connections Video	Video resolution, maximum (depending on distance)	Bandwidth	Model No. DK	Cat. 31 page
Width	Height	Depth						
19"	1 U	140 mm	8	VGA/HD15	1280 x 1024 @ 85 Hz	200 MHz	7552.000¹⁾	740
19"	1 U	140 mm	32	Cat 5	1920 x 1440 @ 75 Hz	250 MHz	7552.100	740

¹⁾ GOST R (see page 98).



Accessories:

Model No. DK	SSC view 8	SSC view 32 Cat
	7552.000	7552.100
SSC converter PS/2	—	7552.201
SSC converter USB	—	7552.202
SSC converter SUN-USB	—	7552.203
CPU cable 2 m (with interlocking PS/2 connectors)	7552.120	—
CPU cable 4 m (with interlocking PS/2 connectors)	7552.140	—
Cat 5 cable 0.5 m	—	7320.470
Cat 5 cable 2 m	—	7320.472
Cat 5 cable 5 m	—	7320.475
Cat 5 cable 10 m	—	7320.481
Cat 5 cable 15 m	—	7320.485



5.4 Power

	Cat. 31 page
Power Distribution Rack PDR	743
Power Distribution Module PDM	743
Power System Module PSM	744
Connection cable	745
Voltage supply	746



5.4 UPS systems VFI SS 111

UPS, single-phase, output range 1 – 6 kVA per rack

	U	Power kVA	Model No. DK	Cat. 31 page
UPS for 482.6 mm (19") racks with integral battery	2	1	7857.401¹⁾	753
UPS for 482.6 mm (19") racks with integral battery	2	1.5	7857.402¹⁾	753
UPS control unit for 482.6 mm (19") racks (matching battery pack 2/3 kVA is always needed)	2 2	2	7857.403¹⁾ 7857.408	753
UPS control unit for 482.6 mm (19") racks (matching battery pack 2/3 kVA is always needed)	2 2	3	7857.404¹⁾ 7857.408	753
UPS floor standing enclosure with integral battery	–	6	7857.405¹⁾	753

¹⁾ GOST R (see page 98).



UPS, three-phase, output range 10 – 120 kVA per rack, prepared for N+1 configuration

Rated output voltage	10 kVA	15 kVA	20 kVA	30 kVA	40 kVA
Output power factor	0.8				
Topology	On-line, double conversion, VFI				
Technology	Second generation, without transformer				
Construction	Modular, may be connected in parallel				
Parallel configuration	For redundancy or increasing the output: – Standard up to 10 modules – With no restrictions on request				

Benefits of the Rittal Modular Power Concept (PMC)

Performance/modularity/ redundancy

PMC is a new, 3-phase, modular N+1 redundant UPS technology. PMC enables simple output expansion to cope with rising output demands. PMC is more than just a UPS – it is a new concept in power supply (Modular Power Concept – PMC) offering key advantages compared with conventional double-conversion 3-phase UPS technology. PMC is a flexible protection system consisting of 3-phase UPS modules in the output categories 10, 20, 30 and 40 kVA.

The modules may be extended without restriction in order to increase the overall output or achieve redundancy.

Scalability

Retrofitting of individual modules while the **system is operational** (hot swap) as required. This UPS offers an infrastructure with a permanently high level of availability.

High availability

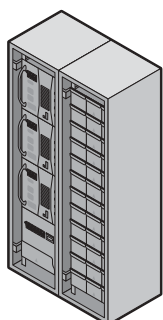
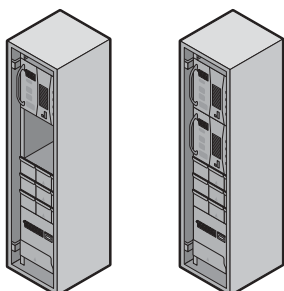
Each UPS module operates **independently with its own intelligence**.

Monitoring

Simple and proven with **optional SNMP adaptor**.

Service-friendly

Individual modules may be exchanged, leading to **fast response times** in case of a malfunction plus enhanced availability.



Further information can be found in Cat. 31, page 753 – 757, and in the RimatriX5 brochure, page 86 – 90.



5.6 Monitoring

Computer Multi Control Top Concept CMC-TC

CMC-TC main products	Packs of	Model No. DK	Cat. 31 page
CMC-TC monitoring system master	1	7320.000	769
CMC-TC monitoring system Processing Unit II	1	7320.100	766
CMC-TC sensor unit I/O unit	1	7320.210	764
CMC-TC sensor unit access unit	1	7320.220	765
CMC-TC sensor unit climate unit	1	7320.230	765
CMC-TC display unit	1	7320.490 ¹⁾	767
CMC-TC GSM unit	1	7320.820	767
CMC-TC ISDN unit	1	7320.830	768
CMC extension unit 3 x voltage 100 – 230 V AC	1	7200.520 ¹⁾	776
Fan Control System FCS	1	7320.810 ¹⁾	786
Fan Alarm System FAS	1	7320.811 ¹⁾	787

Sensor unit	I/O unit	Access unit	Climate unit	Packs of	Model No. DK	Cat. 31 page
Sensors/actuators:						
Temperature sensor	■		■	1	7320.500 ¹⁾	773
Smoke alarm	■		■	1	7320.560 ¹⁾	773
Humidity sensor	■			1	7320.510 ¹⁾	773
Airflow monitor	■		■	1	7320.550 ¹⁾	774
Voltage monitor	■		■	1	7320.600 ¹⁾	774
Voltage monitor with switch output	■			1	7320.610 ¹⁾	774
Voltage monitor 48 V DC	■		■	1	7320.620 ¹⁾	775
Vandalism sensor	■			1	7320.540 ¹⁾	777
Access sensor (max. 5 sensors in series supported)	■	■	■	2	7320.530 ¹⁾	777
CMC-TC motion detector	■		■	1	7320.570 ¹⁾	778
Leakage sensor	■			1	7320.630 ¹⁾	778
Analog sensor input module "4 – 20 mA"	■			1	7320.520 ¹⁾	779
Digital sensor input module	■	■	■	1	7320.580 ¹⁾	779
Digital relay output module	■			1	7320.590 ¹⁾	779
Lock/reader:						
Electro-magnetic TS 8 handle with master key function		■		1	7320.721 ¹⁾	781
Electro-magnetic Ergoform-S FR/PS/TC and TE		■		1	7320.700 ¹⁾	781
Smart card reader		■		1	7320.750 ¹⁾	782
Magnetic card reader		■		1	7320.760 ¹⁾	782
Coded lock		■		1	7320.770 ¹⁾	782
Universal lock		■		1	7320.730 ¹⁾	783
Relay output module for room door		■		1	7320.740 ¹⁾	780

¹⁾ GOST R (see page 98).



5.7 Kiosks

ITS Arc-Line II

TFT display, 17"		Dimensions of kiosk enclosures approx. mm			Contact sensor (touchscreen) including controller	Keyboard recess for use of ITS keyboards	Model No. ITS	Cat. 31 page
		Width	Height	Depth				
Basic (sheet steel)	Rear door	550	1180	720	■	–	9012.100 ¹⁾	792
		550	1180	720	–	■	9012.110 ¹⁾	792
	Front door	550	1180	720	■	–	9012.200 ¹⁾	792
		550	1180	720	–	■	9012.210 ¹⁾	792
Classic (stainless steel)	Rear door	550	1180	720	■	–	9012.300 ²⁾	792
		550	1180	720	–	■	9012.310 ²⁾	792
	Front door	550	1180	720	■	–	9012.400 ²⁾	792
		550	1180	720	–	■	9012.410 ²⁾	792

Accessories, see Cat. 31, page 800.

¹⁾ GOST R (see page 98).

²⁾ Extended delivery times.



ITS Opti-Line II

TFT display	Dimensions of kiosk enclosures approx. mm			Contact sensor (touchscreen) including controller	Keyboard support for use of ITS keyboards	Model No. ITS	Cat. 31 page
	Width	Height	Depth				
15"	560	1500	510	■	–	9006.505 ¹⁾	793
15"	560	1500	580	–	■	9006.605 ¹⁾	793
17"	560	1500	510	■	–	9006.705 ¹⁾	793
17"	560	1500	580	–	■	9006.805 ¹⁾	793

Accessories, see Cat. 31, page 800.

¹⁾ GOST R (see page 98).



ITS Opti-Desk

TFT display	Dimensions approx. mm						Model No. ITS		Cat. 31 page
	With worktop			Base enclosure only with front door			Door and worktop curved inwards	Door and worktop curved outwards	
	Width	Height	Depth	Width	Height	Depth			
15"	1000	1600	850	435	1000	530	9021.250¹⁾	—	794
17"	1000	1600	850	435	1000	530	9021.270¹⁾	—	794
15"	1000	1600	810	435	1000	530	—	9021.255¹⁾	794
17"	1000	1600	810	435	1000	530	—	9021.275¹⁾	794

Accessories, see Cat. 31, page 800.

¹⁾ GOST R (see page 98).



ITS Opti-Wall

TFT display	Enclosure dimensions approx. mm			Contact sensor (touchscreen) including controller	Keyboard support for use of ITS keyboards	Model No. ITS	Cat. 31 page
	Width	Height	Depth				
15"	560	1000	180	■	–	9020.150 ¹⁾	795
15"	560	1000	400	–	■	9020.250 ¹⁾	795
17"	560	1000	180	■	–	9020.170 ¹⁾	795
17"	560	1000	400	–	■	9020.270 ¹⁾	795

Accessories, see Cat. 31, page 800.

¹⁾ GOST R (see page 98).



5.7 Kiosks

ITS Alpha-Line

	Dimensions including base plate and viewing guard approx. mm			TFT display 15"	Model No. ITS	Cat. 31 page
	Width	Height	Depth			
Touchscreen	600	1300	550	■	9007.105¹⁾	796
Prepared for keyboard	600	1300	550	■	9007.205¹⁾	796

Accessories, see Cat. 31, page 800.

¹⁾ GOST R (see page 98).



ITS Out-Line Wall

	Enclosure dimensions approx. mm						TFT display (high brightness for outdoor applications)	Model No. ITS ¹⁾	Cat. 31 page
	Body			Including all projecting parts					
	Width	Height	Depth	Width	Height 2	Depth			
Touchscreen	480	1100	305	600	1360	305	15"	9023.150	797
	480	1100	305	600	1360	305	17"	9023.170	797
Prepared for keyboard	480	1100	365	600	1360	365	15"	9023.250	797
	480	1100	365	600	1360	365	17"	9023.270	797

Accessories, see Cat. 31, page 800.

¹⁾ Climate control needed. Extended delivery times.



ITS Out-Line Pro

TFT display (high brightness for outdoor applications)	Dimensions approx. mm						Contact sensor (touchscreen) including controller	Keyboard support for use of ITS keyboards	Model No. ITS ¹⁾	Cat. 31 page
	Kiosk enclosures			Kiosk including roof						
	Width	Height	Depth	Width	Height	Depth				
15"	650	2000	400	1000	2400	1000	■	—	9022.150	798
15"	650	2000	400	1000	2400	1000	—	■	9022.250	798
17"	650	2000	400	1000	2400	1000	■	—	9022.170	798
17"	650	2000	400	1000	2400	1000	—	■	9022.270	798

Accessories, see Cat. 31, page 800.

¹⁾ Climate control needed. Extended delivery times.



5.7 ITS PC systems

ITS Mini-PC configuration ²⁾	Silent	Pro II	Basic ³⁾
Model No. ITS	9010.110¹⁾	9010.125¹⁾	9003.070¹⁾
Mini PC VIA C3 CPU 1.0 GHz	■	—	—
Mini PC Intel Pentium M 1.6 GHz	—	■	—
Desktop PC Intel Celeron D 2.93 GHz with active fan	—	—	■
Main memory	256 MB	256 MB	256 MB
Hard disk (minimum capacity, approx.)	40 GB	40 GB	40 GB
CD-ROM	■	—	■
DVD-ROM	—	■	—

¹⁾ GOST R (see page 98).

²⁾ We reserve the right to make configuration changes in line with technical progress.

³⁾ PC system Basic not for use in: ITS Alpha-Line, ITS Opti-Wall, ITS Out-Line Wall and ITS Out-Line Pro.

Other PC configurations available on request.



5.7 ITS keyboards (PS/2)

Long-stroke keyboard with trackball

Language ²⁾	Model No. ITS	
	RAL 9005 (black)	RAL 7032 (beige)
German	9004.300 ¹⁾	9004.320 ¹⁾
US English	9004.310 ¹⁾	9004.330 ¹⁾
French	9004.303 ¹⁾	9004.323 ¹⁾
Spanish	9004.304 ¹⁾	9004.324 ¹⁾

¹⁾ GOST R (see page 98).

²⁾ Other language variants available on request.



Also required:

Adaptor plate in brushed stainless steel,
Model No. ITS 9003.160.



Stainless steel keyboard with trackball (PS/2 and USB)

Language ²⁾	Model No. ITS
German	9004.220 ¹⁾
US English	9004.222 ¹⁾
French	9004.223 ¹⁾
Spanish	9004.224 ¹⁾
Finnish	9004.226 ¹⁾
Swedish	9004.227 ¹⁾

¹⁾ GOST R (see page 98).

²⁾ Other language variants available on request.



Membrane keyboard with touchpad (PS/2)

Language ²⁾	Model No. ITS
German	9010.910 ¹⁾
US English	9010.912 ¹⁾
French	9010.913 ¹⁾
Spanish	9010.914 ¹⁾
Finnish	9010.916
Swedish	9010.917

¹⁾ GOST R (see page 98).

²⁾ Other language variants available on request.



5.8 Telecom

Rack system, based on Rittal TC-Rack

Dimensions mm			U	SU	Model No. DK	Cat. 31 page
Width	Height	Depth				
600	2200	300	46	82	7723.035¹⁾	803
600	2200	600	46	82	7726.035¹⁾	803

¹⁾ GOST R (see page 98).



Small FM distributors

Dimensions mm			FM systems	Paired wires	Model No. DK	Cat. 31 page
Width	Height	Depth				
300	500	120	1 bay	100	7052.035¹⁾	806
500	500	120	2 bays	200	7053.035¹⁾	806
500	700	120	2 bays	400	7054.035¹⁾	806
900	700	120	4 bays	800	7055.035¹⁾	806

¹⁾ GOST R (see page 98).



Modular FM wall-mounted distributor

Dimensions mm			FM systems	Paired wires	Model No. DK	Cat. 31 page
Width	Height	Depth				
600	600	350	2 bays	max. 340	7011.535¹⁾	807
760	760	300	2 bays	max. 500	7012.535¹⁾	807
800	1000	300	3 bays	max. 990	7013.535¹⁾	807
800	1200	300	3 bays	max. 1170	7014.535¹⁾	807

¹⁾ GOST R (see page 98).

Approvals:

- UL
- CSA
- TÜV
- Lloyds Register of Shipping
- VDE



Modular FM distributor racks

Dimensions mm			FM systems	Paired wires	Model No. DK	Cat. 31 page
Width	Height	Depth				
600	2000	400	2 bays	max. 1300	7834.060¹⁾	808
800	2000	400	3 bays	max. 1950	7834.080¹⁾	808
1200	2000	400	5 bays	max. 3250	7834.120¹⁾	808

¹⁾ GOST R (see page 98).

Approvals:

- UL
- CSA
- TÜV
- Lloyds Register of Shipping
- VDE



Communication Systems – Perfect protection in all weathers

Rittal's expertise in the fields of enclosure technology, climate control, security management and system integration is combined in standard solutions and customised outdoor systems. The specific requirements of mobile communications, IT technology, environmental technology and power distribution are implemented on a project-specific basis.

High-quality materials such as aluminium and zinc-plated sheet steel combine corrosion resistance and protection from vandalism with UV stability and a high level of RF attenuation.

Individual complete solutions via the use of mass-produced modules:

- CS Toptec (twin-walled)
- CS wall-mounted enclosure (enclosure within an enclosure)
- CS compact enclosure (single-walled)
- CS basic enclosure (single-walled)
- CS modular enclosure (twin-walled)
- CS Indoor Rack
- CS Outdoor climate control



Detailed information and a full range of accessories may be found on our website at www.rittal.com



6.1 CS Toptec

Dimensions mm			Model No. CS		Cat. 31 page
Width	Height	Depth			
Without climate control module					
650	1200	650	9774.100 ¹⁾		817
800	1200	650	9774.200 ¹⁾		817
650	1600	650	9774.300 ¹⁾		817
800	1600	650	9774.400 ¹⁾		817
With heat exchanger			85 W/K	105 W/K	
800	1200	650	9774.210 ¹⁾	9774.230 ²⁾	817
800	1600	650	9774.410 ¹⁾	9774.430 ²⁾	817
With cooling unit			1000 W	1600 W	
800	1200	650	9774.250	9774.270 ²⁾	817
800	1600	650	9774.450	9774.470 ²⁾	817

¹⁾ GOST R (see page 98).

²⁾ Delivery times available on request.



6.1 CS wall-mounted enclosures

Dimensions external/internal mm			Model No. CS	Cat. 31 page
Width	Height	Depth		
370/300	522.5/400	210/170	9791.015 ¹⁾	818
420/350	560.5/440	210/170	9791.025 ¹⁾	818
530/460	700/565	265/220	9791.035 ¹⁾	818
630/580	780/580	380/333	9791.045 ¹⁾	818
With rotating frame, 5 U, instead of mounting plate				
630/580	780/580	380/333	9791.145	818

¹⁾ GOST R (see page 98).



6.1 CS compact enclosures

Dimensions mm			Enclosure	Model No. CS	Cat. 31 page
Width	Height	Depth			
Aluminium AlMg3					
800	1100	320	single-door	9771.115 ¹⁾	819
1100	1100	320	double-door	9772.115 ¹⁾	819
Sheet steel, zinc-plated, passivated					
800	1100	320	single-door	9771.111	819
1100	1100	320	double-door	9772.111	819

Extended delivery times.

¹⁾ GOST R (see page 98).



6.1 Compact enclosures, Outdoor

Dimensions mm			Model No. OC		Cat. 31 page
Width	Height	Depth	Sheet steel	Stainless steel	
800	1200	350	1620.000¹⁾	1620.100	820
1200	800	350	1621.000¹⁾	1621.100	820
1200	1200	350	1622.000¹⁾	1622.100	820

¹⁾ GOST R (see page 98).



6.1 CS basic enclosures

Dimensions mm			Model No. CS		Cat. 31 page
Width	Height	Depth	Without centre bar	With centre bar	
Single-door					
600	800	400	9783.040 ¹⁾	—	821
600	1200	400	9783.050 ¹⁾	—	821
600	1400	400	9783.060 ¹⁾	—	821
600	1200	500	9783.030 ¹⁾	—	821
800	800	400	9783.010 ¹⁾	—	821
800	1200	400	9783.020 ¹⁾	—	821
800	1400	400	9783.120 ¹⁾	—	821
800	1200	500	9783.110 ¹⁾	—	821
Double-door					
1200	800	400	9784.110 ¹⁾	9784.010 ¹⁾	822
1200	1200	400	9784.120 ¹⁾	9784.020 ¹⁾	822
1200	1200	500	9784.140 ¹⁾	9784.040 ¹⁾	822
1200	1400	400	9784.130 ¹⁾	9784.030 ¹⁾	822

¹⁾ GOST R (see page 98).



6.1 CS modular enclosures

Dimensions mm			Model No. CS	Cat. 31 page
Width	Height	Depth		
600	1200	600	9751.125¹⁾	823
800	1200	500	9751.145¹⁾	823
800	1600	600	9751.165¹⁾	823
1200	1200	600	9752.125¹⁾	823

Other modules and size variants can be found in Catalogue 31, page 824.

¹⁾ GOST R (see page 98).



6.1 CS indoor Racks

Dimensions mm			Mounting angles	Model No. CS	Cat. 31 page
Width	Height	Depth			
600	2200	300	19°	9790.042	825
600	2200	300	metric	9790.043	825



6.2 Heat exchanger for CS modular enclosures/ compact enclosures

Dimensions mm			Mounting situation	Specific thermal output	Heater ³⁾	Rated operating voltage	Model No. CS	Cat. 31 page
Width	Height	Depth						
470	158	380	roof-mounted	30 W/K	without	48 V DC	9764.040 ¹⁾	827
535	390	400	roof-mounted	60 W/K	400 W	48 V DC	9764.012 ¹⁾	827
515	1170	151.5	wall-mounted	60 W/K	400 W	48 V DC	9763.012 ¹⁾	827
480	1005	110	door mounting	40 W/K	400 W	48 V DC	9768.032 ¹⁾	828
510	1005	150	door mounting	60 W/K	400 W	48 V DC	9768.012 ¹⁾	828
445	1050	150	door mounting	85 W/K	without	48 V DC	9768.042 ¹⁾	828
575	1050	195	door mounting	120 W/K	without	48 V DC	9768.062 ¹⁾	828
855	95	240	roof mounting ²⁾	15 W/K	without	48 V DC	9767.012 ¹⁾	828

¹⁾ GOST R (see page 98).

²⁾ For compact enclosures.

³⁾ Rated operating voltage 230 V AC, 50/60 Hz.

Note:

Enclosure heaters for CS outdoor enclosures, see Cat. 31, page 656.



6.2 Cooling units for CS modular enclosures

Dimensions mm			Mounting situation	Useful cooling output EN 814		Rated operating voltage	Model No. CS	Cat. 31 page
Width	Height	Depth		L35 L35	L35 L50			
535	390	400	roof mounting	900 W	750 W	230 V AC, 50/60 Hz	9762.012 ¹⁾	829
430	1170	210	door mounting	900 W	650 W	230 V AC, 50/60 Hz	9768.100 ¹⁾	829
515	1070	151.5	wall mounting	900 W	750 W	230 V AC, 50/60 Hz	9761.012 ¹⁾	829
695	1132	151.5	wall mounting	1400 W	1050 W	230 V AC, 50/60 Hz	9761.032 ¹⁾	829
776	1100	250	wall mounting	2500 W	2000 W	230 V AC, 50/60 Hz	9761.042 ¹⁾	829
400	1050	310	universal built-in	1500 W	1250 W	230 V AC, 50/60 Hz	9768.150 ¹⁾	829

¹⁾ GOST R (see page 98).

Approvals CS 9761.032:

- UL
- C-UL



6.2 Climate control units for CS Toptec

Dimensions mm			Mounting situation	Useful cooling output EN 814		Specific thermal output	Rated operating voltage	Model No. CS	Cat. 31 page
Width	Height	Depth		L35 L35	L35 L50				
Heat exchangers									
500	1000	150	universal built-in	–	–	85 W/K	48 V DC	9776.100 ¹⁾	830
500	1000	260	universal built-in	–	–	105 W/K	48 V DC	9776.150	830
Cooling unit									
500	1000	150	universal built-in	1000 W	650 W	–	230 V AC, 50/60 Hz	9776.500	830
500	1000	260	universal built-in	1600 W	1200 W	–	230 V AC, 50/60 Hz	9776.550	830

¹⁾ GOST R (see page 98).



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1004.500	12	1380.500	12	1541.510	9	2261.605	79	3055.000	41
1004.600	12	1380.700	27	1542.510	9	2262.605	79	3056.000	41
1005.600	12	1400.600	13	1545.500	9	2265.605	79	3057.000	41
1006.600	12	1423.600	13	1546.500	9	2268.605	79	3064.000	36
1007.500	12	1432.600	13	1547.500	9	2271.605	79	3066.000	36
1007.600	12	1434.600	13	1548.500	9	2600.500	23	3067.000	38
1008.500	12	1444.600	13	1549.500	9	2610.500	23	3068.000	38
1008.600	12	1446.600	13	1550.500	9	2611.500	23	3069.000	38
1009.600	12	1448.600	13	1551.500	9	2612.500	23	3070.000	38
1010.600	12	1449.600	13	1552.500	9	2613.500	23	3073.000	40
1012.500	12	1453.600	13	1553.500	9	2614.500	23	3074.000	40
1012.600	12	1454.600	13	1554.500	9	2615.500	23	3075.000	40
1013.500	12	1466.600	13	1555.500	9	2616.500	23	3076.000	40
1013.600	12	1467.600	13	1556.500	9	2620.500	23	3078.000	36
1014.500	12	1468.600	13	1557.500	9	2630.500	23	3080.000	36
1014.600	12	1469.600	13	1558.010	25	2640.500	23	3083.000	40
1016.500	12	1479.600	13	1558.510	10	2641.500	23	3084.000	36
1016.600	12	1480.600	13	1559.010	25	2642.500	23	3089.000	36
1017.500	12	1500.510	9	1559.510	10	2643.500	23	3092.000	32
1017.600	12	1501.510	9	1577.500	9	2644.500	23	3093.000	39
1018.500	12	1502.510	9	1577.540	11	2645.500	23	3095.010	40, 41
1018.600	12	1503.510	9	1578.500	9	2646.500	23	3095.020	39
1019.600	12	1504.510	9	1578.540	11	2647.500	23	3095.030	39
1024.010	25	1505.510	9	1579.500	9	2648.500	23	3095.110	40, 41
1024.020	25	1506.510	9	1579.540	11	2649.500	23	3095.120	39
1024.030	25	1507.510	9	1583.010	25	2650.500	23	3095.130	39
1024.040	25	1507.710	27	1583.510	10	2651.500	23	3095.210	39
1030.500	12	1508.510	9	1583.520	10	2652.500	23	3095.230	39
1031.500	12	1509.510	9	1584.010	25	2653.500	23	3095.310	40, 41
1032.500	12	1510.280	10	1584.510	10	2654.500	23	3102.000	72
1033.500	12	1510.510	9	1584.520	10	2655.500	23	3105.000	72
1034.500	12	1511.510	9	1585.010	25	2656.500	23	3106.000	72
1035.500	12	1512.510	9	1585.510	10	2666.500	24	3107.000	72
1038.500	12	1513.510	9	1585.520	10	2668.500	24	3108.000	72
1039.500	12	1514.510	9	1586.510	10	2670.500	24	3115.000	72
1039.700	27	1515.510	9	1586.520	10	2672.500	24	3116.000	72
1045.500	12	1516.510	9	1589.510	9	2683.600	24	3125.800	69
1050.500	12	1517.510	9	1605.510	10	2684.600	24	3126.100	69
1050.900	11	1518.510	9	1605.520	10	2685.600	24	3127.100	69
1057.500	12	1519.510	9	1606.510	10	2686.600	24	3128.100	69
1058.500	12	1521.010	9	1606.520	10	2694.500	24	3129.100	69
1060.500	12	1521.510	9	1609.510	11	2695.500	24	3129.800	69
1060.700	27	1522.010	9	1611.510	11	3000.000	36	3130.100	69
1073.500	12	1522.510	9	1620.000	88	3001.000	36	3144.000	71
1076.290	10	1523.010	9	1620.100	88	3002.000	36	3145.000	71
1076.500	12	1523.510	9	1621.000	88	3003.000	36	3148.007	71
1077.500	12	1524.010	9	1621.100	88	3004.000	36	3149.007	71
1090.500	12	1524.510	9	1622.000	88	3007.000	36	3149.410	71
1100.500	12	1525.010	9	1622.100	88	3008.000	36	3149.420	71
1101.010	12	1525.510	9	1646.500	13	3009.000	36	3149.440	71
1101.020	12	1526.010	9	1647.500	13	3036.000	38	3149.810	71
1101.030	12	1526.510	9	1648.500	13	3037.000	38	3149.820	71
1101.040	12	1527.510	9	1650.500	13	3038.000	38	3149.840	71
1110.500	12	1528.510	9	1652.500	13	3039.000	38	3164.115	72
1114.500	12	1529.510	9	1919.500	79	3040.000	38	3164.230	72
1130.500	12	1530.510	9	1920.500	79	3041.000	38	3164.610	72
1180.500	12	1531.510	9	1926.500	79	3042.000	38	3164.620	72
1180.700	27	1532.510	9	2243.605	79	3043.000	38	3164.810	72
1213.500	12	1533.510	9	2246.605	79	3044.000	38	3164.820	72
1260.500	12	1534.510	9	2249.605	79	3045.000	38	3169.007	71
1280.500	12	1535.510	9	2252.605	79	3046.000	38	3201.100	61
1338.500	12	1536.510	9	2253.605	79	3047.000	38	3202.100	61
1339.500	12	1537.510	9	2255.605	79	3048.000	38	3209.100	68
1350.500	12	1538.510	9	2256.605	79	3049.000	38	3209.104	68
1360.500	12	1539.510	9	2258.605	79	3050.000	36	3209.110	68

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3209.144	68	3304.504	63	3307.610	59	3322.047	69	3329.610	62
3209.500	68	3304.510	62	3307.630	59	3322.107	69	3329.640	62
3209.504	68	3304.514	63	3307.650	59	3322.117	69	3331.116	60
3209.510	68	3304.540	62	3307.670	59	3322.607	70	3331.140	60
3209.514	68	3304.544	63	3307.800	58	3322.617	70	3331.216	60
3209.540	68	3304.600	62	3307.840	58	3323.027	69	3331.240	60
3209.544	68	3304.610	62	3307.880	58	3323.047	69	3331.316	60
3210.100	68	3304.640	62	3307.890	58	3323.107	69	3331.340	60
3210.104	68	3305.100	62	3308.500	59	3323.117	69	3331.416	60
3210.110	68	3305.104	63	3308.540	59	3323.607	70	3331.440	60
3210.114	68	3305.110	62	3308.580	59	3323.617	70	3332.140	62
3210.140	68	3305.114	63	3308.590	59	3324.027	69	3332.240	62
3210.144	68	3305.140	62	3308.800	58	3324.047	69	3332.540	62
3210.500	68	3305.144	63	3308.840	58	3324.107	69	3332.640	62
3210.504	68	3305.200	62	3308.880	58	3324.117	69	3334.600	64
3210.510	68	3305.210	62	3308.884	58	3324.607	70	3335.060	65
3210.514	68	3305.240	62	3309.120	59	3324.617	70	3335.075	65
3210.540	68	3305.500	62	3309.140	59	3325.027	69	3335.100	65
3210.544	68	3305.504	63	3309.170	59	3325.047	69	3335.120	65
3212.024	67	3305.510	62	3309.210	59	3325.107	69	3335.150	65
3212.115	67	3305.514	63	3309.410	59	3325.117	69	3335.200	65
3212.230	67	3305.540	62	3309.420	59	3325.607	70	3335.250	65
3214.100	68	3305.544	63	3309.440	59	3325.617	70	3336.100	64
3215.100	68	3305.600	62	3309.470	59	3326.107	69	3336.200	64
3216.100	68	3305.610	62	3309.500	59	3326.117	69	3336.300	64
3216.480	68	3305.640	62	3309.510	59	3326.607	70	3336.500	64
3217.100	68	3306.210	59	3309.520	59	3326.617	70	3336.600	64
3218.100	68	3306.230	59	3309.530	59	3327.107	69	3336.650	64
3218.104	68	3306.250	59	3309.540	59	3327.117	69	3336.700	64
3247.000	68	3306.270	59	3309.570	59	3327.147	69	3336.710	64
3273.500	60	3306.410	59	3309.580	59	3327.607	70	3336.720	64
3273.515	60	3306.430	59	3309.590	59	3327.617	70	3336.730	64
3278.134	70	3306.450	59	3309.610	59	3328.100	62	3336.740	64
3292.134	70	3306.470	59	3309.620	59	3328.104	63	3336.750	64
3301.210	72	3306.500	59	3309.640	59	3328.110	62	3337.200	65
3301.230	72	3306.510	59	3309.670	59	3328.114	63	3337.300	65
3301.250	72	3306.530	59	3309.800	58	3328.140	62	3337.500	65
3301.260	72	3306.540	59	3309.840	58	3328.144	63	3337.600	65
3302.100	62	3306.550	59	3309.880	58	3328.200	62	3337.650	65
3302.110	62	3306.570	59	3309.884	58	3328.210	62	3337.700	65
3302.200	62	3306.580	59	3310.130	59	3328.240	62	3337.710	65
3302.210	62	3306.590	59	3310.150	59	3328.500	62	3337.720	65
3302.300	61	3306.610	59	3310.230	59	3328.504	63	3337.730	65
3302.310	61	3306.630	59	3310.250	59	3328.510	62	3337.740	65
3303.100	62	3306.650	59	3310.500	59	3328.514	63	3337.750	65
3303.104	63	3306.670	59	3310.530	59	3328.540	62	3338.020	66
3303.110	62	3306.800	58	3310.550	59	3328.544	63	3338.040	66
3303.114	63	3306.840	58	3310.580	59	3328.600	62	3338.060	66
3303.200	62	3306.880	58	3310.630	59	3328.610	62	3338.080	66
3303.210	62	3306.884	58	3310.650	59	3328.640	62	3338.100	66
3303.500	62	3307.210	59	3310.800	58	3329.100	62	3338.120	66
3303.504	63	3307.230	59	3310.880	58	3329.104	63	3338.140	66
3303.510	62	3307.250	59	3316.180	68	3329.110	62	3338.160	66
3303.514	63	3307.270	59	3316.200	68	3329.114	63	3338.180	66
3303.600	62	3307.410	59	3318.600	64	3329.140	62	3338.200	66
3303.610	62	3307.430	59	3318.610	64	3329.144	63	3338.220	66
3304.100	62	3307.450	59	3319.600	64	3329.200	62	3338.240	66
3304.104	63	3307.470	59	3319.610	64	3329.210	62	3338.260	66
3304.110	62	3307.500	59	3320.600	64	3329.240	62	3338.280	66
3304.114	63	3307.510	59	3321.027	69	3329.500	62	3338.300	66
3304.140	62	3307.530	59	3321.047	69	3329.504	63	3338.320	66
3304.144	63	3307.540	59	3321.107	69	3329.510	62	3338.340	66
3304.200	62	3307.550	59	3321.117	69	3329.514	63	3338.360	66
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3338.660	67	3366.110	63	3385.640	61	3493.000	39, 40	3659.650	51
3338.680	67	3366.140	63	3386.140	60	3493.210	39, 40	3659.700	51
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3338.740	67	3366.240	63	3386.640	61	3495.000	39, 40	3684.020	54
3338.760	67	3366.500	63	3387.140	60	3495.210	39, 40	3684.021	54
3338.780	67	3366.510	63	3387.240	61	3499.020	40	3684.022	54
3338.800	67	3366.540	63	3387.540	60	3499.030	40	3684.023	54
3338.820	67	3366.600	63	3387.640	61	3500.000	36	3684.024	54
3338.840	67	3366.610	63	3400.000	39, 40	3501.000	36	3684.025	54
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3339.300	66	3377.200	63	3409.310	41	3508.000	36	3684.030	54
3339.400	66	3377.210	63	3410.000	39, 40	3509.000	32, 36	3684.031	54
3339.450	66	3377.240	63	3411.000	39, 40	3510.000	36	3684.032	54
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3341.230	70	3382.100	60	3415.130	39	3519.000	36	3684.039	54
3342.024	70	3382.110	60	3415.210	39	3520.000	39	3684.040	54
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3352.115	71	3383.210	61	3428.000	39	3530.000	39	3684.051	54
3352.230	71	3383.240	61	3429.000	39	3531.000	39	3684.052	54
3352.500	71	3383.500	60	3431.000	29, 30, 39, 41	3532.000	39	3684.053	54
3359.100	60	3383.510	60	3433.000	39	3539.000	38	3684.054	54
3359.110	60	3383.540	60	3434.000	39	3540.000	38	3684.055	54
3359.140	60	3383.600	61	3435.000	39	3541.000	38	3684.056	54
3359.200	61	3383.610	61	3437.000	38	3544.000	38	3684.057	54
3359.210	61	3383.640	61	3437.010	38	3545.000	38	3684.058	54
3359.240	61	3384.100	60	3438.000	38	3580.000	30	3684.059	54
3359.500	60	3384.110	60	3439.000	36	3580.100	30	3684.060	54
3359.510	60	3384.140	60	3439.010	36	3581.000	30, 32	3684.061	54
3359.540	60	3384.200	61	3440.000	36	3581.100	30, 32	3684.062	54
3359.600	61	3384.210	61	3441.000	36	3582.000	32	3684.063	54
3359.610	61	3384.240	61	3442.000	36	3583.000	32	3684.064	54
3359.640	61	3384.500	60	3443.000	36	3584.000	32	3684.065	54
3360.100	64	3384.510	60	3444.000	36	3585.000	32	3684.072	56
3360.250	64	3384.540	60	3445.000	38	3586.000	32	3684.073	56
3360.400	64	3384.600	61	3446.000	38	3591.010	40	3684.128	54
3361.100	62	3384.610	61	3485.000	41	3591.020	39	3684.129	54
3361.110	62	3384.640	61	3486.000	41	3591.030	39	3684.130	54
3361.140	62	3385.100	60	3487.000	41	3591.040	41	3684.131	54
3361.200	62	3385.110	60	3488.000	41	3591.050	41	3684.132	54
3361.210	62	3385.140	60	3488.310	41	3659.000	51	3684.133	54
3361.240	62	3385.200	61	3489.000	41	3659.080	53	3684.134	54

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3684.137	54	3685.304	52	3686.556	50	3687.689	55	3688.126	53
3684.138	54	3685.305	52	3686.557	50	3687.690	55	3688.127	53
3684.139	54	3685.306	52	3686.558	50	3687.691	55	3688.128	53
3684.142	54	3685.307	52	3686.559	50	3687.695	52	3688.129	53
3684.143	54	3685.328	53	3686.560	50	3687.696	50	3688.130	53
3684.144	54	3685.329	53	3686.561	50	3687.698	50	3688.301	46
3684.145	54	3685.330	52	3686.562	50	3687.699	50	3688.302	46
3684.146	54	3685.331	53	3686.563	50	3687.700	50	3688.303	46
3684.147	54	3685.332	53	3686.564	50	3687.702	50	3688.304	46
3684.148	54	3686.396	48	3686.565	50	3687.703	50	3688.466	46
3684.149	54	3686.397	48	3686.566	50	3687.704	50	3688.469	46
3684.150	54	3686.414	48	3686.567	50	3687.705	50	3688.470	46
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3684.153	54	3686.471	52	3686.570	49	3687.717	47	3688.506	48
3684.156	54	3686.472	52	3686.571	49	3687.718	47	3688.507	48
3684.157	54	3686.473	50	3686.575	47	3687.719	47	3688.508	48
3684.158	54	3686.474	50	3686.576	47	3687.720	47	3688.528	52
3684.159	54	3686.475	50	3686.578	47	3687.721	47	3688.530	52
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3684.161	54	3686.477	50	3686.580	48	3687.780	55	3688.537	52
3684.162	54	3686.478	50	3686.581	48	3687.781	55	3688.603	49
3684.163	54	3686.479	50	3686.585	51	3687.782	55	3688.607	49
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3684.165	54	3686.481	50	3686.587	51	3687.784	55	3688.655	52
3684.166	54	3686.482	50	3686.588	51	3687.785	55	3688.694	52
3684.169	54	3686.483	50	3686.589	51	3687.793	53	3688.695	52
3684.170	54	3686.484	50	3686.590	51	3687.814	56	3688.696	52
3684.171	54	3686.485	50	3686.591	51	3687.815	56	3689.177	47
3684.172	54	3686.486	50	3686.592	51	3687.816	56	3689.178	47
3684.173	54	3686.487	50	3686.593	51	3687.817	56	3689.179	47
3684.174	54	3686.488	50	3686.594	51	3687.818	56	3689.180	47
3684.175	54	3686.489	50	3686.595	51	3687.819	56	3689.186	48
3684.176	54	3686.490	50	3686.596	51	3687.820	56	3689.188	48
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3685.238	54	3686.546	47	3687.681	55	3688.118	53	3741.000	57
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7453.035	77	7820.600	74	7830.670	73	8205.500	15	8685.500	15
7454.000	78	7820.610	74	7830.800	73	8206.500	15	8685.560	17
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7600.100	75	7821.610	74	7855.510	74	8452.660	17	8881.500	15
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9012.110	83	9206.600	26	9340.460	33	9350.060	30	9513.000	8
9012.200	83	9207.600	26	9340.510	33	9350.080	31	9513.100	8
9012.210	83	9208.600	26	9340.530	33	9350.090	31	9514.000	8
9012.300	83	9209.600	26	9340.550	33	9350.100	31	9514.050	8
9012.310	83	9301.000	26	9340.610	33	9350.110	31	9514.100	8
9012.400	83	9302.000	26	9340.630	33	9350.120	31	9515.000	8
9012.410	83	9303.000	26	9340.650	33	9350.130	31	9515.100	8
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9020.250	83	9306.000	26	9341.000	32	9350.160	31	9517.000	8
9020.270	83	9320.000	38	9341.070	32	9350.170	31	9517.100	8
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9023.170	84	9320.220	37	9341.340	34	9350.270	31	9522.000	8
9023.250	84	9320.230	37	9341.370	34	9350.280	31	9522.100	8
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